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Department of Water Resources

BULLETIN No. 130-66

# HYDROLOGIC DATA: 1966

Volume I: NORTH COASTAL AREA

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JANUARY 1968

RONALD REAGAN  
Governor  
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WILLIAM R. GIANELLI  
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Department of Water Resources

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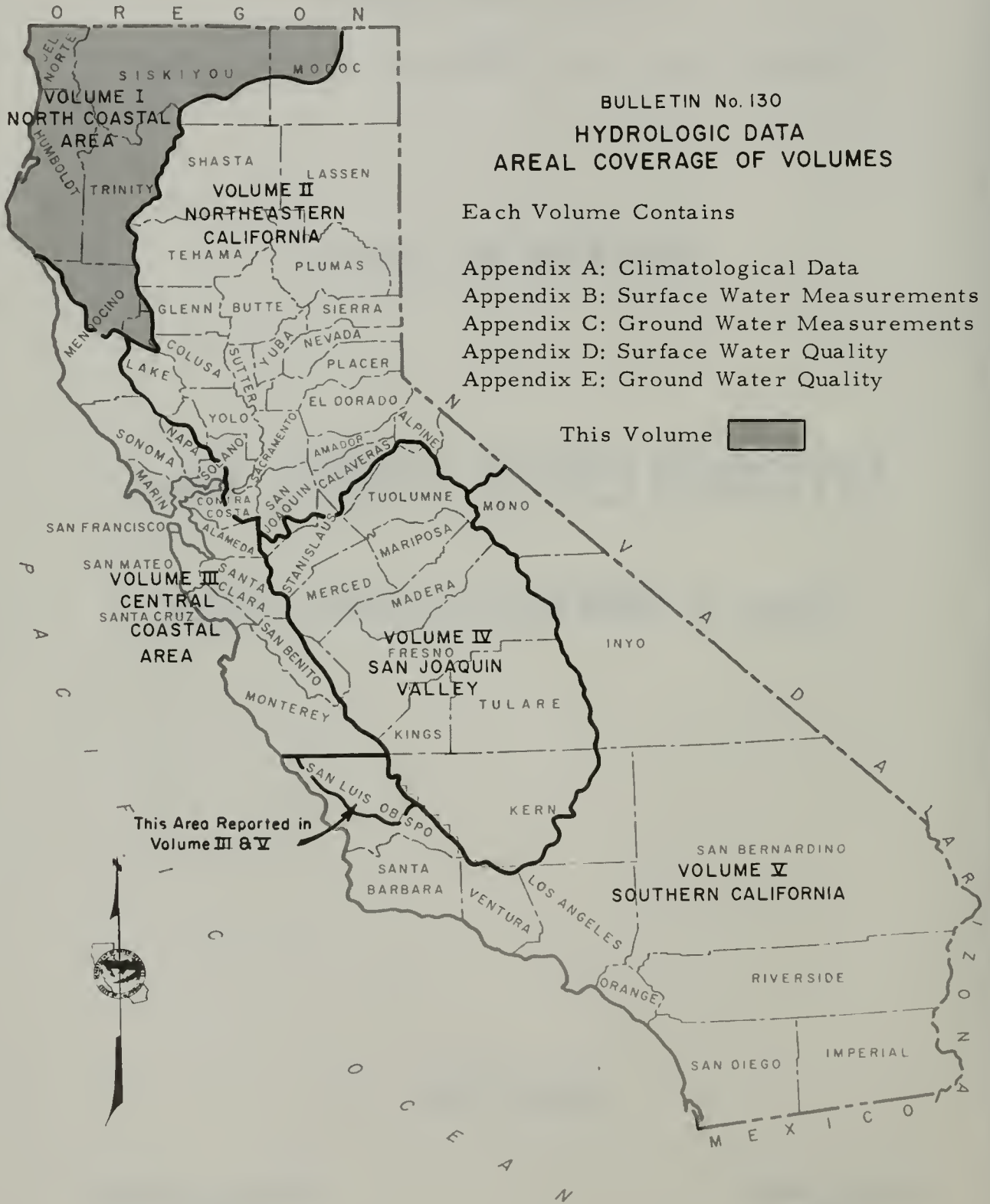
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Volume I: NORTH COASTAL AREA

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BULLETIN No. 130  
 HYDROLOGIC DATA  
 AREAL COVERAGE OF VOLUMES

Each Volume Contains

- Appendix A: Climatological Data
- Appendix B: Surface Water Measurements
- Appendix C: Ground Water Measurements
- Appendix D: Surface Water Quality
- Appendix E: Ground Water Quality

This Volume

This Area Reported in  
 Volume III & V





## FOREWORD

The hydrologic data programs of the Department of Water Resources supplement the activities of other agencies and help satisfy the specific needs of these agencies for data on the quality and quantity of water in the State. Bulletin No. 130-66 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisites for effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map on the opposite page.

This volume presents data on climate, surface water flow, ground water levels, and surface and ground water quality in the North Coastal Area.

*William R. Gianelli.*

William R. Gianelli, Director  
Department of Water Resources  
The Resources Agency  
State of California

November 17, 1967

## METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT
Inch (in)	2.54 Centimeters
Foot (ft)	0.3048 Meter
Mile (mi)	1.609 Kilometers
Acre	0.405 Hectare
Square mile (sq. mi.)	2.590 Square kilometer
U. S. gallon (gal)	3.785 Liters
Acre foot (acre-ft)	1,233.5 Cubic meters
U. S. gallon per minute (gpm)	0.0631 Liters per second
Cubic feet per second (cfs)	1.7 Cubic meters per minute

TABLE OF CONTENTS

	Page
AREAL COVERAGE OF VOLUMES. . . . .	ii
FOREWORD . . . . .	iii
METRIC CONVERSION TABLE. . . . .	iv
ORGANIZATION . . . . .	vii
ABSTRACT . . . . .	viii
APPENDIXES	
APPENDIX A: CLIMATOLOGICAL DATA . . . . .	1
Introduction. . . . .	3
Table A-1 Index of Climatological Stations . . . . .	4
Table A-2 Precipitation Data . . . . .	7
Table A-3 Storage Gage Precipitation Data. . . . .	11
Table A-4 Temperature Data . . . . .	12
Table A-5 Evaporation Data . . . . .	16
Plate A-1 Climatological Observation Stations, 1965-66 . . . . .	Bound at Back of Volume
APPENDIX B: SURFACE WATER MEASUREMENTS. . . . .	19
Introduction. . . . .	21
Figure B-1 Location of Surface Water Measurement and Quality Monitoring Stations, 1965-66 . . . . .	22
Table B-1 Annual Unimpaired Runoff . . . . .	24
Table B-2 Monthly Unimpaired Runoff. . . . .	27
Table B-3 Daily Mean Discharge . . . . .	28
Table B-4 Streamflow Measurements at Miscellaneous Sites . . . . .	36

TABLE OF CONTENTS (Cont.)

	Page
APPENDIX C: GROUND WATER MEASUREMENTS . . . . .	39
Introduction . . . . .	41
Figure C-1 Ground Water Basins in North Coastal Area . . . . .	43
Table C-1 Average Change of Ground Water Levels and Summary of Well Measurements Reported . . . . .	44
Table C-2 Ground Water Levels at Wells . . . . .	45
APPENDIX D: SURFACE WATER QUALITY . . . . .	53
Introduction . . . . .	55
Table D-1 Sampling Station Data and Index . . . . .	57
Table D-2 Mineral Analyses of Surface Water . . . . .	58
Table D-3 Trace Element Analyses of Surface Water . . . . .	87
Table D-4 Miscellaneous Constituents in Surface Water . . . . .	88
APPENDIX E: GROUND WATER QUALITY . . . . .	95
Introduction . . . . .	97
Table E-1 Mineral Analyses of Ground Water . . . . .	98
Table E-2 Trace Element Analyses of Ground Water . . . . .	107

State of California  
The Resources Agency  
DEPARTMENT OF WATER RESOURCES

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Reviewed and coordinated by  
Statewide Planning Office  
Data Coordination Branch

## ABSTRACT

The report contains tables showing data on climate, surface water flow, ground water levels, and surface and ground water quality in the North Coastal Area during the 1965-66 water year. Figures show the location of surface water measurement stations, surface water sampling stations, and ground water basins. A plate shows the location of climatological stations.

APPENDIX A  
CLIMATOLOGICAL DATA





## INTRODUCTION

This appendix summarizes monthly precipitation, temperature, wind movement, and evaporation data for the North Coastal Area from July 1, 1965, to September 30, 1966. Storage gage precipitation data are reported annually. Fifty-five cooperating agencies and 65 local observers supplied the data.

To insure accuracy, stations are inspected either semiannually or annually to see that the equipment is properly maintained and that observations are generally taken in accordance with U. S. Weather Bureau standards.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits denote the alphabetical sequence of the station.

### North Coastal Area

- F0 - Smith River
- F1 - Lost River-Butte Valley
- F2 - Shasta-Scott Valleys
- F3 - Klamath River
- F4 - Trinity River
- F5 - Mad River
- F6 - Eel River
- F7 - Mattole River

TABLE A-1 INDEX OF CLIMATOLOGICAL STATIONS

An explanation of the column headings and the code symbols

follows:

40-Acre Tract - This denotes the location of the station within the section in which it is located. The letter code is derived from the diagram to the right.

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Base and Meridian - The code for this column is as follows:

- H - Humboldt Base and Meridian
- M - Mount Diablo Base and Meridian

Cooperator Number - This number is assigned from the following list:

- 000 Private Cooperators
- 006 Northwestern Pacific Railroad
- 804 California Department of Beaches and Parks
- 805 California Department of Fish and Game
- 806 California Department of Water Resources
- 808 California Division of Forestry
- 809 California Division of Highways
- 900 U. S. Weather Bureau
- 901 Corps of Engineers, San Francisco District
- 905 U. S. Forest Service

Cooperator's Index Number - This is the number assigned to the station by the agency responsible for, or handling the records of, the station. The U. S. Weather Bureau number is only shown in this column when it differs from the alpha order number.

County - This is a standard code for California counties; those counties used in this appendix are shown below:

<u>County</u>	
Del Norte	08
Glenn	11
Humboldt	12
Lake	17
Mendocino	23
Siskiyou	47
Trinity	53
Modoc	25

TABLE A-1  
INDEX OF CLIMATOLOGICAL STATIONS FOR 1965-66  
NORTH COASTAL AREA

Station		Elevation (In Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						O	I	II	O	I	II						
F6 0018	ADANAC LODGE	1100	SEC 14	T23N	R17W	H M	39	50	48	123	42	00	000		1950			23
F6 0088	ALDERPOINT	435	SEC 27	T03S	R05E	H	40	11	00	123	36	00	900		1940			12
F5 0253	ARCATA A P	217	SEC 19	T07N	R01E	O H	40	58	18	124	05	24	000		1957			12
F3 0715	BESWICK 7 S	6140	SEC 33	T47N	R03W	M	41	52	00	122	14	00	900		1952			47
F4 0738	BIG BAR RANGER STA	1270	SEC 05	T33N	R12W	M	40	44	54	123	14	42	900		1943			53
F5 0764	BIG LAGOON	100	SEC 18	T09N	R01E	R H	41	09	36	124	05	54	000	PN2125	1947			12
F2 0786-01	BIG SPRINGS 4 E	2955	SEC 05	T43N	R04W	R M	41	35	30	122	19	42	000		1960			47
F3 0899	BLUE CREEK MTN LO	4870	SEC 30	T12N	R04E	R H	41	23	42	123	45	54	900		1960			08
F5 0901	BLUE LAKE	105	SEC 30	T06N	R02E	A H	40	52	54	123	59	12	000		1951			12
F5 0903	BLUE LAKE REDWOOD CR	975	SEC 11	T06N	R03E	H	40	55	00	123	49	00	900		1956			12
F4 0929	BOARDCAMP MTN	4500	SEC 26	T04N	R04E	H	40	42	12	123	42	00	000		1963			12
F6 1046	BRANSCOMB 2 NW	1480	SEC 09	T21N	R16W	M	39	41	12	123	39	36	900		1959			23
F1 1050	BRAY 10 WSW	5759	SEC 24	T43N	R03W	M	41	34	00	122	08	00	900		1951			47
F6 1080	BRIDGEVILLE 4 NNW	2050	SEC 27	T02N	R03E	H	40	31	00	123	49	00	900		1954			12
F6 1083	BRIDGEVILLE P O	650	SEC 11	T01N	R03E	O H	40	28	06	123	48	00	000		1959			12
F6 1181	BULL CREEK	410	SEC 36	T01S	R01E	H H	40	21	00	124	06	30	000		1960			12
F6 1210	BURLINGTON ST PARK	200	SEC 12	T02S	R02E	O H	40	18	30	123	54	24	000		1950			12
F4 1215	BURNT RANCH 1S	2150	SEC 23	T05N	R06E	E H	40	47	48	123	28	48	900		1945			53
F4 1215-15	BURNT RCH HMS	1500	SEC 14	T05N	R06E	F H	40	48	30	123	26	30	000		1963			53
F2 1316	CALLAHAN RANGER STA	3136	SEC 21	T40N	R08W	M	41	18	00	122	48	00	900		1943			47
F0 1446	CAMP SIX LOOKOUT	3700	SEC 31	T17N	R03E	B M	41	49	48	123	52	24	000		1963			08
F7 1505	CAPE RANCH	710	SEC 23	T01N	R03W	F H	40	27	24	124	22	46	000		1959			12
F3 1606	CECILVILLE 5 SE	2980	SEC 12	T37N	R11W	M	41	06	00	123	03	00	900		1954			47
F3 1799	CLEAR CREEK	975	SEC 07	T15N	R07E	H H	41	42	30	123	26	54	900		1959			47
F4 1886	COFFEE CREEK RS	2500	SEC 06	T37N	R07W	M	41	05		122	42		900		1960			53
F3 1990	COPCO DAM NO 1	2700	SEC 29	T48N	R04W	P M	41	59	00	122	20	00	900		1928			47
F6 2081	COVELO	1385	SEC 12	T22N	R13W	M	39	47	00	123	15	00	900		1921			23
F6 2084	COVELO EEL RIVER RS	1514	SEC 28	T23N	R11W	M	39	50	00	123	05	00	900		1940			23
F0 2147	CRESCENT CITY 1 N	40	SEC 20	T16N	R01W	H	41	46	00	124	12	00	900		1885			08
F0 2148	CRESCENT CITY 7 ENE	120	SEC 08	T16N	R01E	H	41	48	00	124	05	00	900		1913			08
F0 2150	CRESCENT CITY HMS	50	SEC 20	T16N	R01W	H	41	46	00	124	12	00	900		1941			08
F0 2152	CRESCENT CITY 11 E	360	SEC 30	T16N	R02E	B H	41	45	18	123	59	30	000		1947			08
F1 2188	CROWDER FLAT	5175	SEC 20	T47N	R11E	K M	41	53	00	120	44	00	000	PN2188	1958			25
F6 2218	CUMMINGS	1270	SEC 21	T23N	R16W	M	39	50	00	123	36	00	900		1927			23
F1 2480	DORRIS INSPECT STA	4240	SEC 36	T48N	R01W	R M	41	57	18	121	54	30	000		1959			47
F6 2490	DOS RIOS	927	SEC 31	T22N	R13W	M	39	43	00	123	21	00	900		1917			23
F0 2749	ELK VALLEY	1711	SEC 34	T19N	R04E	H	42	00	00	123	45	00	900		1938			08
F2 2899	ETNA	2912	SEC 28	T42N	R09W	M	41	28	00	122	54	00	900		1935			47
F6 2910	EUREKA WB CITY	43	SEC 22	T05N	R01W	H	40	48		124	10		900		1874			12
F7 3025	FERDALE 8 SSW	1445	SEC 06	T01N	R02W	P H	40	29	30	124	20	24	900		1959			12
F6 3030	FERDALE 2NW	10	SEC 34	T05N	R02W	K H	40	35	54	124	16	36	900		1963			12
F5 3041	FIELOBROOK 4 D RCH	285	SEC 36	T07N	R01E	P H	40	26	36	124	01	00	000		1956			12
F3 3122	FOOTHILL SCHOOL	2960	SEC 25	T46N	R05W	F M	41	48	42	122	22	18	000		1962			47
F4 3130	FOREST GLEN	2340	SEC 22	T01S	R08E	H	40	23	00	123	20	00	900		1930			53
F3 3151	FORKS OF SALMON	1270	SEC 24	T10N	R07E	A H	41	15	12	123	19	00	900		1959			47
F0 3173	FORT DICK	46	SEC 14	T17N	R01W	H	41	52	00	124	09	00	900		1951			
F2 3176	FORT JONES 6 ESE	3324	SEC 12	T43N	R08W	M	41	35	00	122	43	00	900		1941			47
F2 3182	FORT JONES RANGER ST	2720	SEC 02	T43N	R09W	C M	41	36	00	122	51	00	900		1936			47
F6 3194	FORTUNA	60	SEC 35	T03N	R01W	G H	40	36	00	124	09	00	000		1955			12
F6 3217	FOX CAMP	2500	SEC 09	T02S	R01E	R H	40	18	24	124	03	54	811		1960			12
F6 3320	GARBERVILLE	340	SEC 24	T04S	R03E	H	40	06	00	123	48	00	900		1938			12
F6 3322-01	GARBERVILLE HMS	540	SEC 24	T04S	R03E	G H	40	06	00	123	47	40	809		1935			12
F0 3357	GASQUET RANGER STA	384	SEC 21	T17N	R02E	N H	41	52	00	123	58	00	900		1940			08
F2 3361-03	GAZELLE - EPPERSON	2760	SEC 17	T43N	R06W	J H	41	34	18	122	53	12	000		1950			47
F2 3363	GAZELLE LOOKOUT	5200	SEC 08	T41N	R07W	J M	41	24	30	122	40	30	000		1956			47
F2 3363-05	GAZELLE TUCKER	2690	SEC 16	T43N	R06W	M	41	34	30	122	32	36	000		1964			47
F1 3564	GRASS LAKE HMS	5080	SEC 28	T44N	R03W	G M	41	37	48	122	11	30	900		1954			47
F2 3614	GREENVIEW	2818	SEC 29	T43N	R09W	M	41	33	00	122	54	00	900		1943			47
F6 3647	GRIZZLY CRK REDWOOD	500	SEC 11	T01N	R02E	H	40	29	00	123	47	00	900		1963			12
F3 3761	HAPPY CAMP RANGR STA	1090	SEC 11	T16N	R07E	H	41	48	00	123	23	00	900		1914			47
F6 3785	HARRIS 7 SSE	1910	SEC 27	T05S	R05E	N H	39	59	24	123	36	42	000		1953			23
F6 3810	HARTSOOK INN	470	SEC 24	T05S	R03E	D H	40	00	48	123	47	30	000		1957			12
F4 3859	HAYFORK RANGER STA	2340	SEC 12	T31N	R12W	R M	40	33	00	123	10	00	900		1915			53
F4 3949	HIDDEN VALLEY RCH	1978	SEC 32	T01N	R02E	M H	40	24	54	123	24	30	000		1959			53
F6 3956	HIGH ROCK	900	SEC 15	T01S	R02E	K H	40	22	48	123	56	30	808		1960			12
F3 3987	HILTS	2900	SEC 23	T48N	R07W	M	42	00	00	122	38	00	900		1939			47
F6 4037-02	HOLMES	150	SEC 33	T01N	R02E	R H	40	25	06	123	57	06	000		1954			12
F7 4074	HONEYDEW 2 WSW	380	SEC 02	T03S	R01W	C H	40	14	18	124	09	00	900		1953			12
F7 4074-01	HONEYDEW HUNTER	380	SEC 02	T03S	R01W	M H	40	14	18	124	09	06	000		1955			12
F5 4077	HONOR CAMP 42	1875	SEC 31	T07N	R03E	K H	40	56	48	123	52	42	000		1956			12

TABLE A-1 (Continued)  
**INDEX OF CLIMATOLOGICAL STATIONS FOR 1965-66**  
 NORTH COASTAL AREA

Station		Elevation (In Feet)	Section	Township	Range	40-Acre Tract Base B Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						O	I	II	O	I	II						
F4 4082	HOOPA	350	SEC 25	T08N	R04E	H	41	03	00	123	40	00	900		1941			12
F4 4084	HOOPA 2 SE	315	SEC 31	T08N	R05E	H	41	02	00	123	39	00	900		1954			12
F4 4191	HYAMPOM	1260	SEC 25	T03N	R06E	H	40	37	00	123	28	00	900		1940			53
F0 4202	IDLEWILD HMS	1250	SEC 06	T17N	R04E	D	41	34	00	123	46	12	900		1946			08
F3 4577	KLAMATH	25	SEC 15	T13N	R01E	H	41	31	00	124	02	00	900		1941			08
F6 4587	KNEELAND 10 SSE	2356	SEC 13	T03N	R02E	H	40	36	00	123	34	00	900		1954			12
F5 4602	KORBEL	150	SEC 28	T06N	R02E	P	40	52	00	123	37	30	900		1937			12
F6 4690	LAKE MOUNTAIN		SEC 21	T05S	R07E	H	40	01	00	123	24	00	900		1937			53
F6 4698	LAKE PILLSBURY NO 2	1740	SEC 10	T18N	R10W	M	39	25		122	37		900		1964			17
F1 4838	LAVA BEGS NAT MON	4770	SEC 28	T45N	R04E	H	41	43	48	121	30	30	900		1940		06	47
F6 4851	LAYTONVILLE	1640	SEC 01	T21N	R15W	M	39	42	00	123	27	00	900		1940			23
F5 4982	LITTLE RIVER	150	SEC 31	T08N	R01E	P	41	01	34	124	06	36	000		1949			12
F2 4984-02	LITTLE SHASTA	2725	SEC 26	T45N	R05W	C	41	45	00	122	23	00	000		1960			47
F1 5081-01	LONG BELL STATION	4375	SEC 02	T42N	R05E	B	41	26	00	121	23	00	000		1956			25
F5 5244	MAD RIVER RANGER STA	2775	SEC 17	T01N	R06E	H	40	27	00	123	32	00	900		1943			53
F1 5505	MEDICINE LAKE	6660	SEC 10	T43N	R03E	M	41	35	00	121	37	00	900		1946			47
F6 5676	MINA 3 NW	2675	SEC 28	T05S	R07E	A	40	00	06	123	23	30	000		1927			53
F6 5711	MIRANDA 4 SE	263	SEC 30	T03S	R04E	H	40	11	00	123	47	00	900		1964			12
F6 5713	MIRANDA SPENGLER RCH	400	SEC 19	T03S	R04E	H	40	12	00	123	46	00	900		1939			12
F2 5783	MONTAGUE	2500	SEC 27	T45N	R06W	O	41	43	42	122	31	36	000	045783	1888		05	47
F2 5785	MONTAGUE 3 NE	2640	SEC 18	T45N	R05W	M	41	45	00	122	28	00	900		1948			47
F1 5941	MOUNT HEBRON R S	4250	SEC 32	T46N	R01W	M	41	47	00	122	00	00	900		1942			47
F4 6032	MUMBO BASIN	5700	SEC 35	T39N	R08W	E	41	12	00	122	32	00	900		1946			53
F6 6050	MYEKS FLAT	190	SEC 30	T02S	R03E	H	40	13	40	123	32	00	000		1950			12
F3 6328	OAK KNOLL RANGER STA	1763	SEC 12	T46N	R09W	M	41	50	00	122	31	00	900		1942			47
F6 6408	OLO HARRIS	2225	SEC 30	T04S	R05E	G	40	05	00	123	39	42	000		1956			12
F5 6497-01	ORICK 3 NNE	50	SEC 22	T11N	R01E	K	41	19	24	124	02	30	000		1920			12
F5 6497-02	ORICK ARCATA REDWOOD	75	SEC 22	T11N	R01E	K	41	19	24	124	02	36	000		1924			12
F5 6498	ORICK PRAIRIE CREEK	161	SEC 02	T11N	R01E	H	41	22	00	124	01	00	900		1927			12
F3 6508	ORLEANS	403	SEC 31	T11N	R06E	H	41	26	00	123	32	00	900		1963			12
F5 6745	PATRICKS PT ST PK	250	SEC 26	T09N	R01W	L	41	08	12	124	09	00	804		1947			12
F7 6835-01	PETROLIA	175	SEC 03	T02S	R02W	L	40	19	30	124	16	48	000		1958			12
F7 6835-02	PETROLIA 4 NW	900	SEC 19	T01S	R02W	D	40	22	24	124	16	30	000		1953			12
F6 6851-15	PHILLIPSVILLE 1SE	300	SEC 19	T03S	R04E	B	40	11	42	123	31	00	000		1963			12
F6 6976	PLASKETT	6280	SEC 27	T22N	R09W	A	39	44	12	122	31	24	000		1960			11
F6 7404	RICHARDSON GROVE	500	SEC 13	T05S	R03E	H	40	02		123	47		900		1961			12
F4 7698	SALYER RANGER STA	623	SEC 14	T06N	R05E	H	40	33	00	123	35	00	900		1931			53
F3 8025	SAWYERS BAR R S	2169	SEC 20	T40N	R11W	M	41	16	00	123	08	00	900		1931			47
F6 8045	SCOTIA	139	SEC 07	T01N	R01E	H	40	29	00	124	05	00	900		1940			12
F3,8083-01	SETAD VALLEY R S	1371	SEC 11	T46N	R12W	R	41	30	36	123	11	42	900		1953			47
F7 8162	SHELTER COVE	55	SEC 16	T05S	R01E	H	40	02		124	04		900		1959			12
F6 8163	SHERWOOD VALLEY	2170	SEC 32	T20N	R14W	F	39	32	36	123	26	30	901		1958			23
F0 8311-01	SMITH RIVER 2 WNW	195	SEC 21	T18N	R01W	A	41	26	30	124	10	42	000		1951			08
F3 8346	SOMESBAR 1W	520	SEC 04	T11N	R06E	H	41	23	00	123	29	00	900		1934			12
F3 8346 05	SOMESBAR UKONOM R.S.	727	SEC 33	T12N	R06E	H	41	23	00	123	26	00	900	PN8919	1965			12
F6 8490	STANDISH HICKEY PARK	850	SEC 03	T23N	R17W	F	39	32	30	123	43	30	900		1949			23
F6 8668	SUNNY BRAE	70	SEC 33	T06N	R01E	H	40	32	00	124	04	00	000		1963			12
F4 9024	TRINITY DAM VISTA PT	2500	SEC 16	T34N	R05W	M	40	46	00	122	46	00	900		1959			53
F1 9053	TULELAKE	4035	SEC 06	T47N	R05E	M	41	38	00	121	26	00	900		1932			47
F1 9057	TULELAKE INSP STN	4406	SEC 31	T44N	R07E	F	41	36		121	12		000	049057	1953			25
F7 9177	UPPER MATTOLE	255	SEC 33	T02S	R01W	H	40	15	00	124	11	00	900		1666			12
F4 9490	WEAVERVILLE RANGER S	2050	SEC 12	T33N	R10W	M	40	44	00	122	36	00	900		1669			53
F2 9499	WEED FD	3593	SEC 01	T41N	R05W	M	41	26	00	122	23	00	900		1957			47
F6 9527	WEOTT 2SE	600	SEC 12	T02S	R02E	H	40	16	29	123	33	40	000		1961			12
F7 9654	WHITETHORN	1050	SEC 15	T05S	R02E	E	40	01	18	123	56	12	000		1962			12
F6 9684	WILLITS 1 NE	1350	SEC 17	T16N	R13W	M	39	25	00	123	21		900		1950			23
F6 9685	WILLITS HOWARD RS	1925	SEC 05	T17N	R13W	M	39	21	00	123	19	00	900		1935			23
F6 9686	WILLITS NW PAC RR	1365	SEC 18	T18N	R13W	L	39	24	12	123	21	06	006		1911		05	23
F1 9691-02	WILLOW CREEK RANCH	5200	SEC 06	T46N	R11E	G	41	30		120	45		900	PN9692	1960			25
F2 9866	YREKA	2631	SEC 27	T45N	R07W	M	41	43	00	122	36	00	900		1871			47
F6 9940	ZENIA 1 SSE	2680	SEC 22	T03S	R06E	G	40	11	18	123	26	34	000		1950			53

TABLE A-2  
PRECIPITATION DATA  
NORTH COASTAL AREA

Station Name	Precipitation in inches												Total Oct.1 To Sept.30			
	1965						1966									
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		July	Aug.	Sept.
NORTH COASTAL AREA																
SMITH RIVER																
CRESCENT CITY LN	61.03	.02	.05	.01	13.01	10.92	15.46	5.68	12.09	2.16	.29	1.49	.55	3.66	67.95	
CRESCENT CITY TENE	84.32	.87	.00	1.81	13.31	16.78	23.75	7.01	14.92	3.51	.32	1.17	.56	3.32	87.30	
CRESCENT CITY HRS	—	.86	.00	1.73	13.33	11.11	31.32	5.55	12.04	2.02	.13	1.38	.46	3.59	—	
CRESCENT CITY LLE	107.00	1.16	.00	3.23	15.43	21.76	31.32	8.22	20.95	3.80	.15	.73	.00	2.49	109.56	
EIK VALLEY	76.91	1.70	.00	2.61	11.75	15.54	23.15	4.71	12.97	2.93	.09	.35	.34	1.13	76.57	
FORT DICK LANE	77.00	.05	T	2.98	15.24	15.03	19.00	5.50	14.33	2.94	.33	1.97	.43	3.95	82.05	
GASQUET RANGER STA	96.14	.02	.00	3.24	14.59	18.03	21.82	7.61	17.94	3.72	.38	.80	.40	2.42	96.27	
IDLEWILD HHS	76.39	.08	.00	2.48	11.04	15.90	21.82	5.48	13.98	2.80	.15	.35	.30	1.77	76.55	
SMITH RIVER 02NW	74.22	.01	.00	2.54	15.01	13.63	16.82	5.98	13.46	2.91	.13	2.62	.36	4.42	78.62	
LOST RIVER-BUTTE VAL																
DORRIS INSPECT STA	9.64	.05	.00	.04	2.99	1.14	.94	.45	.54	.56	.67	.61	.17	.34	10.25	
GRASS LAKE HHS	—	.35	T	.10	1.64	1.71	1.00	—	—	—	—	—	—	—	—	
LAVA BEDS NAT MON	11.15	.36	.02	.05	4.27	1.14	.83	.69	.83	.38	.86	.93	.18	.44	16.50	
MOUNT HEBRON R.	10.42	.91	.02	.00	3.32	.85	.82	.33	.38	.30	1.00	.69	.11	.93	7.34	
TULELAKE	9.226	.07	.03	.06	2.76	.69	.64	.23	.36	.29	.50	.69	.21	.35	7.35	
TULELAKE INSPECT STA	10.71	.72	T	T	2.75	1.20	.95	1.19	.77	.59	.30	.72	.13	.30	8.97	
WILLOW CREEK RANCH	—	.00	.00	.07	2.46	—	1.32	.15	1.14	1.01	.03	.88	.33	—	—	
SHASTA-SCOTT VALLEYS																
BIG SPRINGS 4E	6.28	.09	.00	.00	1.83	.69	.73	.25	.50	.18	.30	.32	.03	.45	5.34	
CALLAHAN RANGER STA	15.54	T	.08	.04	4.83	3.06	2.76	.60	.78	.77	1.12	.17	T	1.08	15.42	
ETNA	18.79	.00	.16	.12	2.42	3.37	7.70	.16	1.52	.93	1.08	.20	.00	1.01	18.57	
FORT JONES 66SE	15.60	.00	.52	.11	1.93	2.37	4.73	.46	1.83	.67	.73	.65	.81	.94	15.35	
FORT JONES RANGER S	19.50	.61	.33	.04	2.23	2.99	6.32	.51	1.81	.74	.76	.33	.13	1.59	17.70	
GAZELLE EPPERSON	8.87	.60	.00	.05	1.74	.69	1.80	.00	.82	.31	.99	.32	.42	1.41	8.44	
GAZELLE TUCKER	7.48	.31	.05	.00	1.68	.77	.99	.03	.70	.31	.78	.58	.05	.90	6.84	
GREENVIEW	9.11	.00	.00	—	1.76	5.00	6.53	.16	1.74	.70	2.22	.10	.06	.24	—	
LITTLE SHASTA	9.13	.41	.00	.00	1.77	.87	1.50	.50	1.20	.45	.85	.58	1.00	.60	9.42	
MONTAGUE	—	1.57	.27	.00	1.71	1.33	2.01	.54	.77	.47	.62	.23	.14	.83	8.86	
MONTAGUE 3NE	—	.00	.19	T	—	—	—	—	.83	.57	.74	.19	.40	1.00	—	
WEED FIRE DEPT	19.30	1.32	.01	T	8.44	1.23	3.10	1.50	.83	.57	.57	.26	.13	.73	17.46	
YREKA	14.13	.31	.75	.02	2.17	1.92	3.50	.56	1.06	.42	.69	.27	.17	1.08	12.07	

T Trace  
— No record or record incomplete



TABLE A-2 (Continued)  
PRECIPITATION DATA  
NORTH COASTAL AREA

Station Name	Precipitation in Inches												Total July 1 To Sept. 30			
	1965						1966									
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		July	Aug.	Sept.
NORTH COASTAL AREA																
KLAWASH RIVER																
CECILVILLE SSE																
CLEAR CREEK																
COPCO DAM NO. 1																
FOOTHILL SCHOOL																
FORKS OF SALMON																
HAPPY CAMP RANGER S																
HILLS																
KLAMATH																
OAK KNOLL R S																
OREGANS																
SAWYER BAR R S																
SEAD VALLEY R S																
SOMESEBAR IN																
SOMESEBAR-UKONGOM R S																
TRINITY RIVER																
BIG BAR RANGER STA																
BURNT RANCH LS																
BURNT RANCH HHS																
COFFEE CREEK R S																
FOREST GLEN																
HAYFORK RANGER STA																
HIDDEN VALLEY RANCH																
HOOPA																
HOOPA 2SE																
HYAMPOM																
SALMER RANGER STA																
TRINITY DAM VISTA PT																
WEAVERVILLE R S																
MAD RIVER																
ARCATA AIRPORT																
BIG LAGOON																
BLADE LAKE																
BLADE LAKE REDWOOD CH																
FIELDBROOK 4D RANCH																

T Trace

— No record or record incomplete

\* Amount included in the following measurement; time distribution unknown.

TABLE A-2 (Continued)  
 PRECIPITATION DATA  
 NORTH COASTAL AREA

Station Name	Precipitation in Inches												Total Oct. To Sept/30			
	1965						1966									
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		July	Aug.	Sept.
NORTH COASTAL AREA																
MAD RIVER																
HONOR CAMP 42	60.20	.57	.00	2.11	10.14	8.02	18.25	5.44	10.97	3.81	.18	.71	.91	.33	1.72	62.59
KORREL	44.46	.32	.00	1.23	8.22	7.74	12.57	4.19	7.61	2.09	.00	.49	.36	.59	1.61	46.70
LITTLE RIVER	49.89	.31	.10	1.48	9.20	*	21.68	4.52	9.26	2.24	.26	.84	.30	.46	2.35	52.59
MAD RIVER RANGER STA	56.07	.81	.00	1.05	13.72	8.86	15.18	5.76	7.66	2.17	.15	.71	.86	.49	1.00	57.61
ORICK 3NNE	66.38	1.31	.00	1.82	10.50	11.87	18.00	6.70	12.21	2.99	.17	.81	—	—	—	—
ORICK ARCADIA REDWOOD	59.47	1.32	.00	1.66	9.85	11.35	14.21	5.87	11.60	2.78	.18	.65	.51	.61	3.06	62.33
ORICK PRAIRIE CR. PK	66.06	1.53	.08	1.74	10.15	12.66	17.78	6.29	12.50	2.34	.11	.88	.67	.56	2.65	68.33
PATRICKS PT STATE PK	89.93	1.17	.00	1.37	14.29	13.42	25.23	8.96	17.42	2.95	.12	1.00	.00	.56	2.56	87.88
EEL RIVER																
ADAMAC LODGE	60.95	.28	T	.96	14.79	9.70	18.68	7.15	6.24	2.86	T	.29	.00	.20	.66	61.53
ALDERPOINT	47.51	.59	.00	.74	10.93	6.62	15.20	5.35	6.21	1.76	.02	.09	.07	.30	.85	48.14
BRANSOORE 2NW	68.78	.46	T	1.28	14.02	9.96	23.29	7.92	8.17	3.51	.03	.07	.00	.22	.63	69.10
BRIDGEVILLE 1NW	54.30	1.67	.00	1.11	12.81	*	24.03	4.04	6.89	2.68	.56	.51	.04	.57	1.10	54.34
BRIDGEVILLE P O	—	.44	.00	.59	—	—	—	—	—	—	—	—	—	—	—	—
BULL CREEK	—	—	—	.79	15.67	9.62	20.40	9.08	10.80	2.54	.08	.17	.00	.44	1.01	70.60
BOHLINGTON STATE PK	61.94	.42	.00	.52	14.50	9.09	18.01	7.77	9.37	2.04	.04	.18	T	.42	1.19	63.13
COVELO	40.35	1.84	.00	.39	10.62	5.39	12.96	3.64	4.00	1.36	.01	.02	.00	.19	.39	38.97
COVELO EEL RIVER R S	—	.69	.00	.27	10.57	10.10	10.10	4.00	3.95	1.64	.03	.04	.00	.22	.62	—
CUMMINGS	59.12	.38	.00	1.03	12.81	10.48	16.72	7.81	7.17	2.71	.01	.00	.00	.24	.70	59.68
DOS RIOS	—	—	—	—	12.61	5.99	13.43	4.63	4.94	1.49	.00	.00	.00	.00	.27	—
EUREKA W B CITY	32.31	.36	T	.70	5.20	5.22	9.44	3.12	6.57	1.34	.06	.30	.25	.50	1.33	34.03
FENDALE 2NW	36.69	.35	.06	.74	7.01	6.58	9.88	3.85	6.37	1.39	.03	.36	.22	.44	1.25	38.12
FORTUNA	38.47	.20	.00	.57	7.77	5.26	10.74	4.97	6.99	1.66	.05	.26	.24	.37	1.09	39.97
FOX CAMP	—	—	—	1.12	—	—	—	—	—	—	—	—	—	—	—	—
GARBERVILLE	52.00	.36	.00	.56	11.03	9.51	14.93	5.23	7.49	2.11	.18	.58	.00	.30	1.16	53.08
GARBERVILLE HMS	18.63	.30	.00	.32	13.52	7.61	13.02	6.01	5.57	1.91	.00	.37	.00	.31	1.22	49.86
GREZLY CRK REDWOOD	—	.42	.00	.74	12.46	6.72	17.84	7.15	5.68	2.64	.00	.00	.00	.51	—	—
HARRIS TSSSE	53.65	—	—	—	13.29	12.12	9.65	7.70	5.99	2.98	.00	.00	.00	.00	.88	54.38
HARPOOK INN	—	—	—	—	—	—	—	—	—	—	—	—	—	.00	1.30	—
HIGH ROCK	59.67	.28	.00	.32	16.07	9.18	16.64	6.97	7.71	1.92	.32	.26	T	.45	1.07	60.91
HOMES	—	—	—	—	11.40	8.40	14.74	6.63	7.08	1.85	.10	.05	T	.35	1.03	—
KNEELAND LOSSE	—	.47	.00	1.16	10.58	8.78	13.12	8.18	—	2.43	.04	.57	.25	.52	1.25	—
LAKE MOUNTAIN	50.05	.74	.00	.82	12.84	8.18	*	17.35	7.66	2.39	.00	.07	.16	.29	.68	50.44
LAKE PILLSBURY NO. 2	42.22	.97	.00	.84	12.10	5.17	12.72	4.29	3.78	2.62	.05	.07	.00	.58	.21	42.03

T Trace  
 — No record or record incomplete  
 \* Amount included in the following measurement; time distribution unknown.

TABLE A-2 (Continued)  
PRECIPITATION DATA  
NORTH COASTAL AREA

Station Name	Precipitation in Inches												Total Oct.1 To Sept.30				
	1965						1966										
	Total July 1 To June 30	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May		June	July	Aug.	Sept.
NORTH COASTAL AREA																	
EEL RIVER																	
LAYTONVILLE																	
MINA 3NW																	
MIRANDA 4SE																	
MIRANDA SPENGLER RCH																	
MIDERS FLAT																	
OLD HARRIS																	
PHILIPSVILLE 1SE																	
RICHARDSON GROVE																	
SCOTIA																	
SHERWOOD VALLEY																	
STANDISH HICKEY PK																	
SUNNY BRME																	
WEOT 2SE																	
WILLIAMS LNE																	
WILLIAMS HOWARD R S																	
WILLIAMS NW PAC RR																	
ZENITA 1SSE																	
MATTOLE RIVER																	
CAFE RANCH																	
FERRADALE 8SW																	
HORDEMAN 2SW																	
HORDEMAN HUNTER																	
FETROLIA																	
FETROLIA 4NW																	
SHELLER COVE																	
UPPER MATTOLE																	
WHITETHORN																	

T Trace  
— No record or record incomplete



TABLE A-3  
STORAGE GAGE PRECIPITATION DATA  
NORTH COASTAL AREA

Station	Agency	1965-66 Season		
		Measurement Period		Precipitation in inches
NORTH COASTAL AREA				
<u>SMITH RIVER</u>				
Camp Six Lookout	DWR	6-29-65	6-28-66	95.10
<u>LOST RIVER-BUTTE VALLEY</u>				
Bray 10 WSW	DWR	6-30-65	6-27-66	15.95
Crowder Flat	DWR	6-30-65	6-29-66	12.85
Long Bell Station	DWR	7- 1-65	6-30-66	20.59
Medicine Lake	DWR	6-30-65	6-27-66	39.20
<u>SHASTA-SCOTT VALLEYS</u>				
Gazelle Lookout	DWR	6-29-65	6-28-66	19.25
<u>KLAMATH RIVER</u>				
Beswick 7S	DWR	6-30-65	6-28-66	36.05
Blue Creek Mountain	USWB	8-18-65	9- 6-66	98.88
<u>TRINITY RIVER</u>				
Board Camp Mountain	DWR	6-28-65	6-27-66	87.76
Mumbo Basin	DWR	7- 1-65	6-29-66	57.09
<u>EEL RIVER</u>				
Plaskett	DWR	7- 2-65	6-30-66	46.45

DWR - Department of Water Resources, Northern District  
USWB - United States Weather Bureau

TABLE A-4 TEMPERATURE DATA

The definition of terms and the abbreviations used in Table A-4 are as follows:

Maximum - The highest temperature of record for the month.

Minimum - The lowest temperature of record for the month.

Avg Max - The arithmetic average of daily maximum temperatures for the month.

Avg Min - The arithmetic average of daily minimum temperatures for the month.

Average - The arithmetic average of the daily maximum and minimum temperatures for the month.

TABLE A - 4  
TEMPERATURE DATA  
NORTH COASTAL AREA

Station Name	TEMPERATURE IN DEGREES FAHRENHEIT														
	1965						1966								
	July	Aug	Sept	Oct	Nov	Dec	Jan.	Feb.	Mar	Apr.	May	June	July	Aug	Sept.
NORTH COASTAL AREA LOST RIVER-BUTTE VALLEY	Maximum	88	84	82	68	55	48	50	76	74	85	88	93	93	88
	Minimum	30	20	18	12	-2	6	-4	9	20	28	26	28	34	24
	AVG Max	78.2	70.0	67.4	49.2	37.9	40.1	42.4	52.8	62.6	71.0	72.1	79.6	82.4	75.0
	AVG Min	44.4	34.4	31.5	30.3	19.2	23.8	20.7	26.7	29.8	36.8	41.2	41.6	45.5	40.8
Average	63.4	52.2	49.5	39.8	28.6	32.0	31.6	39.8	46.2	53.9	56.7	60.6	64.0	57.9	
GRASS LAKE EMS	Maximum	84	77	71	63	48	—	—	—	—	—	—	—	—	—
	Minimum	34	22	13	12	-2	—	—	—	—	—	—	—	—	—
	AVG Max	77.8	71.7	66.8	52.4	28.7	—	—	—	—	—	—	—	—	—
	AVG Min	38.7	32.4	25.7	26.1	13.2	—	—	—	—	—	—	—	—	—
Average	58.2	52.0	46.2	39.2	21.0	—	—	—	—	—	—	—	—	—	
TULELAKE INSPECT STA	Maximum	92	87	86	71	58	49	50	75	77	87	91	97	96	93
	Minimum	36	19	18	6	-4	1	5	5	16	24	24	28	35	31
	AVG Max	83.3	72.7	72.3	49.6	40.4	37.8	39.8	49.9	63.5	74.1	72.6	82.0	86.8	77.7
	AVG Min	41.2	34.0	31.5	27.8	17.6	15.9	14.6	22.5	28.1	34.6	39.3	41.3	46.1	40.6
Average	63.8	53.4	51.9	38.7	29.0	26.8	27.2	36.2	45.8	54.4	56.0	61.7	66.5	59.2	
SHASTA-SCOTT VALLEYS MONTAGUE	Maximum	98	96	88	74	62	—	—	80	81	93	98	102	102	98
	Minimum	38	38	23	15	0	2	10	11	20	32	31	31	36	34
	AVG Max	91.5	85.7	74.5	53.8	41.2	43.6	49.6	62.6	70.1	79.0	78.7	87.6	91.1	81.8
	AVG Min	46.8	48.3	30.7	30.0	17.4	22.1	29.1	29.9	29.6	41.5	44.9	45.9	48.1	40.6
Average	69.2	67.0	52.6	41.9	29.3	—	—	44.3	49.9	60.2	61.8	66.8	69.6	61.2	
KLAMATH RIVER CORCO DAM NO 1	Maximum	104	99	89	74	62	52	57	84	87	95	101	104	105	101
	Minimum	46	47	30	26	13	18	19	21	30	34	35	40	48	36
	AVG Max	94.3	88.8	79.5	53.3	45.0	43.6	49.6	59.7	72.8	80.3	81.3	89.2	93.8	84.6
	AVG Min	56.8	57.4	43.0	37.7	24.9	28.1	29.1	34.5	39.8	46.1	49.6	55.2	58.4	51.8
Average	75.6	73.1	61.3	45.5	35.0	35.8	39.4	47.1	56.3	63.2	65.5	72.2	76.1	68.2	
SEIAD VALLEY R S	Maximum	103	100	92	76	55	52	60	81	86	97	103	105	106	103
	Minimum	40	42	36	28	15	14	21	21	29	35	36	41	44	34
	AVG Max	94.2	86.9	78.3	56.7	45.1	43.8	51.2	57.5	73.6	83.4	81.4	89.8	95.3	85.2
	AVG Min	51.7	54.9	40.4	39.9	26.9	29.9	29.0	33.0	38.3	44.3	47.4	49.5	52.7	46.9
Average	73.0	70.9	59.4	48.3	36.0	34.8	40.1	45.3	56.0	63.9	64.4	69.7	74.0	66.1	

-- No record or record incomplete

TABLE A-4 (Continued)

TEMPERATURE DATA  
NORTH COASTAL AREA

Station Name	TEMPERATURE IN DEGREES FAHRENHEIT														
	1965						1966								
	July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.
NORTH COASTAL AREA TRINITY RIVER BURNT RANCH EMS	Maximum	97	96	—	—	62	58	63	80	—	93	—	—	—	—
	Minimum	54	40	—	—	20	21	24	27	—	36	—	—	—	—
	Avg Max	87.5	85.7	—	—	51.1	49.7	55.7	64.0	—	81.5	—	—	—	—
	Avg Min	57.8	47.5	—	—	33.8	33.6	33.1	34.9	—	43.6	—	—	—	—
Average	73.5	72.7	66.6	—	42.5	41.7	44.4	49.5	—	62.6	—	—	—	—	
MAD RIVER BLAKE LAKE	Maximum	79	83	84	72	66	70	65	70	88	84	84	77	80	94
	Minimum	47	38	38	34	27	28	29	30	37	40	39	46	46	44
	Avg Max	69.2	70.8	68.7	63.3	56.2	57.8	58.3	59.2	66.1	64.2	70.5	69.6	72.6	75.4
	Avg Min	56.0	48.8	48.1	47.9	38.6	39.5	38.6	42.5	44.4	48.0	48.7	53.1	52.2	53.5
Average	62.6	63.2	58.4	58.4	47.3	48.6	48.4	50.9	55.3	56.1	59.6	61.4	63.0	63.6	
FIELDBROOK 4-D RANCH	Maximum	75	73	79	84	66	—	58	66	80	76	83	74	78	90
	Minimum	46	48	33	34	30	—	25	28	34	38	35	44	46	40
	Avg Max	66.5	69.8	66.9	67.0	59.0	—	52.7	54.4	63.2	64.1	69.5	68.4	71.6	72.8
	Avg Min	49.1	53.5	45.0	44.0	43.5	—	36.8	39.7	44.1	44.8	47.7	50.1	50.0	47.2
Average	57.3	61.7	56.0	55.6	51.2	—	44.8	47.1	53.7	54.5	58.6	59.3	60.5	60.9	
HONOR CAMP 4E	Maximum	84	83	91	92	66	60	58	78	90	88	96	81	88	94
	Minimum	40	43	27	34	30	24	27	22	31	32	32	42	40	39
	Avg Max	72.6	71.9	80.3	70.1	54.3	50.8	50.3	53.6	72.7	71.1	67.7	68.5	75.1	73.0
	Avg Min	46.9	49.1	37.0	46.3	40.0	33.9	32.6	35.6	38.4	40.6	43.6	46.2	49.2	49.1
Average	59.8	60.5	58.7	58.2	47.2	42.4	41.4	44.6	55.6	55.9	55.7	57.4	62.2	61.1	
KORRELL	Maximum	78	83	82	93	79	68	64	72	90	90	100	82	86	96
	Minimum	40	45	38	42	32	25	24	27	32	34	34	44	42	40
	Avg Max	72.9	76.3	71.9	70.3	63.0	55.0	56.9	58.6	66.2	68.8	74.6	73.6	75.9	77.8
	Avg Min	50.2	53.8	47.2	46.0	43.3	36.7	32.3	39.5	39.8	41.7	54.5	49.7	48.3	47.2
Average	61.6	65.0	59.6	58.2	53.2	45.8	46.1	49.1	53.0	55.3	64.6	61.7	62.1	62.5	
EEL RIVER BULL CREEK	Maximum	—	—	—	—	—	—	—	—	—	—	—	—	—	107
	Minimum	—	—	—	—	—	—	—	—	—	—	—	—	—	36
	Avg Max	—	—	—	—	—	—	—	—	—	—	—	—	—	84.4
	Avg Min	—	—	—	—	—	—	—	—	—	—	—	—	—	44.4
Average	—	—	—	—	—	—	—	—	—	—	—	—	—	64.4	

— No record or record incomplete

TABLE A-4 (Continued)  
 TEMPERATURE DATA  
 NORTH COASTAL AREA

Station Name	TEMPERATURE IN DEGREES FAHRENHEIT														
	1965						1966								
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
NORTH COASTAL AREA EEL RIVER	Maximum	94	94	86	79	59	66	64	78	83	90	99	92	96	96
	Minimum	42	48	42	34	28	32	27	34	36	42	40	38	47	44
	Avg Max	81.9	77.4	71.7	60.0	50.8	56.5	55.1	60.1	71.5	74.8	78.1	81.2	83.5	80.9
	Avg Min	54.1	48.6	47.9	46.3	36.7	39.6	39.0	41.2	46.1	46.6	49.5	53.5	53.0	50.5
Average	68.6	63.0	59.8	53.2	43.8	46.7	47.0	50.7	58.8	60.7	63.8	67.4	68.3	65.7	
GARBENVILLE HMS	Maximum	—	88	76	64	60	74	62	76	86	96	108	—	108	108
	Minimum	—	48	27	32	20	28	26	29	33	40	37	—	46	37
	Avg Max	—	76.7	58.0	49.5	49.8	57.8	55.7	62.5	74.0	82.0	84.7	—	86	81.2
	Avg Min	—	49.5	42.7	39.2	31.4	35.5	33.8	36.8	41.7	44.3	49.4	—	53.0	49.8
Average	63.1	—	50.4	44.4	40.6	46.6	44.6	49.7	57.9	63.2	67.1	—	75.5	70.5	
GRIZZLY CRK REDWOOD	Maximum	84	89	90	69	64	64	64	79	88	86	93	84	87	98
	Minimum	41	41	32	29	21	25	26	30	30	38	36	44	41	40
	Avg Max	74.5	75.7	72.6	59.4	50.6	52.9	54.2	58.3	65.1	67.8	72.7	74.1	76.5	78.2
	Avg Min	48.6	52.5	45.2	43.1	32.1	36.0	34.4	38.9	42.4	43.6	47.3	50.3	48.4	48.4
Average	61.6	64.1	58.9	51.2	41.4	44.4	44.3	48.6	53.8	55.7	60.0	62.2	62.2	62.5	
HOLMES	Maximum	—	—	—	67	64	62	62	79	91	87	94	85	90	96
	Minimum	—	—	—	31	26	29	31	33	38	44	43	48	46	44
	Avg Max	—	—	—	58.4	52.0	53.2	55.3	62.0	68.6	71.3	73.8	75.5	79.2	81.1
	Avg Min	—	—	—	42.2	35.6	40.4	40.9	43.8	46.9	48.0	52.0	54.4	52.2	51.0
Average	—	—	—	50.3	43.8	46.2	48.1	52.9	57.8	59.6	62.9	65.0	65.0	65.7	
OLD HARRIS	Maximum	102	96	90	75	74	65	75	94	94	84	94	94	98	112
	Minimum	40	40	40	29	22	20	22	18	32	32	32	40	40	38
	Avg Max	86.1	76.6	76.1	54.4	51.9	50.2	57.0	65.9	77.5	71.5	75.0	82.2	84.2	83.7
	Avg Min	44.2	46.2	49.4	38.3	31.5	31.1	29.6	40.2	40.8	39.6	43.4	45.3	49.6	48.2
Average	65.1	61.4	62.8	46.4	41.7	40.6	43.3	53.1	59.2	55.6	59.2	63.8	66.4	66.0	
STANDISH HICKEY PK	Maximum	90	88	84	85	67	62	66	78	87	93	103	100	99	103
	Minimum	44	50	36	31	22	25	27	29	33	38	38	42	43	40
	Avg Max	79.9	73.6	73.6	60.3	51.8	54.8	54.9	61.1	74.7	76.1	79.7	82.7	88.5	82.8
	Avg Min	52.1	53.1	45.2	42.7	32.4	35.5	34.8	39.3	42.2	43.7	48.4	48.5	51.4	47.0
Average	66.0	65.9	59.4	51.5	42.1	45.2	44.8	50.2	58.5	59.9	64.1	65.6	70.0	64.9	
SUNNY BRAE	Maximum	—	—	—	—	—	60	63	63	—	—	—	—	—	—
	Minimum	—	—	—	—	—	25	26	26	—	—	—	—	—	—
	Avg Max	—	—	—	—	—	51.8	52.8	54.6	—	—	—	—	—	—
	Average	—	—	—	—	—	34.8	33.9	36.8	—	—	—	—	—	—

— No record or record incomplete

TABLE A-5 EVAPORATION DATA

The definition of terms and the abbreviations used in Table A-5 are as follows:

- Evap - The total amount of water evaporated from the pan in inches for the month.
- Wind - The amount of movement of air over the pan in miles for the month.
- Avg Max - The arithmetic average of daily maximum water temperatures in degrees Fahrenheit for the month.
- Avg Min - The arithmetic average of daily minimum water temperatures in degrees Fahrenheit for the month.

TABLE A-5  
 EVAPORATION DATA  
 NORTH COASTAL AREA

Station Name	Evaporation in Inches					Wind in Total Miles												Water Temperature in Degrees Fahrenheit				
	Total July 1 To June 30	1965				1966												1966				
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total Oct. 1 To Sept. 30					
NORTH COASTAL AREA	—	8.81	7.38	6.76	4.21	—	—	—	—	—	—	—	—	—	—	—	—					
LOST RIVER-BUTTE VALLEY	—	8.81	7.38	6.76	4.21	—	—	—	—	—	—	—	—	—	—	—	—					
TULELAKE	—	8.81	7.38	6.76	4.21	—	—	—	—	—	—	—	—	—	—	—	—					
KLAMATH RIVER	—	8.66	6.45	5.28	—	—	—	—	—	—	—	—	—	—	—	—	—					
SELAD VALLEY R R	—	8.66	6.45	5.28	—	—	—	—	—	—	—	—	—	—	—	—	—					
TRINITY RIVER	—	10.63	7.60	6.26	3.02	872	—	—	—	—	—	—	—	—	—	—	—					
TRINITY DAM VISTA PT	—	10.63	7.60	6.26	3.02	872	—	—	—	—	—	—	—	—	—	—	—					
BEEL RIVER	—	10.63	7.60	6.26	3.02	872	—	—	—	—	—	—	—	—	—	—	—					
FERDALE 2NW	32.25	3.90	4.23	3.24	5.03	1.18	1.02	1.89	1.29	1.87	3.30	4.06	5.18	4.41	4.00	3.74	32.97					
	890	77.4	81.3	74.2	69.2	1651	1651	1723	1469	1568	1046	1097	986	900	957	841	14516					
	49.6	55.9	59.2	52.9	47.8	32.3	32.3	34.0	37.6	41.8	72.1	71.7	81.4	79.5	78.0	78.7	68.3					
	58.22	10.1	8.39	6.80	3.65	.89	.75	4.4	1.07	2.97	5.89	8.18	8.99	9.98	9.81	6.76	59.34					
	1004	912	874	874	562	309	288	124	655	828	971	1154	1062	1083	837	621	59.34					
	—	92.0	89.4	81.5	73.0	56.4	48.9	55.4	66.0	66.0	78.0	85.6	87.9	90.4	83.3	—	—					
	—	61.0	61.0	52.1	48.5	45.3	38.3	39.3	44.4	44.4	48.7	55.0	56.3	57.7	60.2	54.5	—					





APPENDIX B

SURFACE WATER MEASUREMENTS



## INTRODUCTION

This appendix presents surface water data for the 1966 water year, the period from October 1, 1965, to September 30, 1966. The data consist of daily mean discharges, gaging station locations, summary tables of monthly and annual unimpaired runoff from major streams, and streamflow measurements at miscellaneous locations.

The station, Etna Creek near Etna (F25620), was dropped from the program on October 1, 1965.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits identify each station.

### North Coastal Area

- F0 - Smith River
- F1 - Lost River-Butte Valley
- F2 - Shasta-Scott Valleys
- F3 - Klamath River
- F4 - Trinity River
- F5 - Mad River
- F6 - Eel River
- F7 - Mattole River

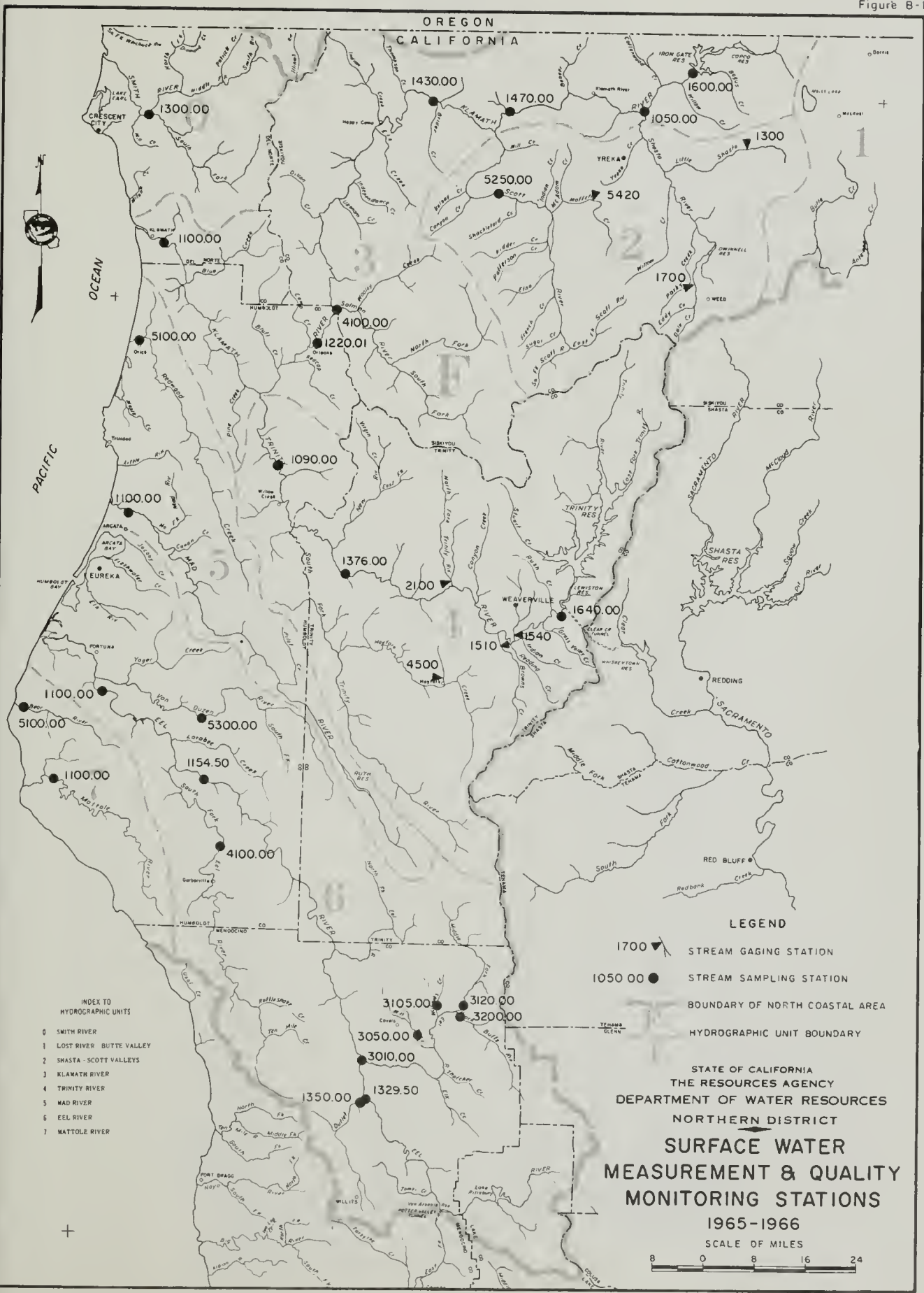
## INDEX TO GAGING STATIONS

F21300 Little Shasta River near Montague  
F21700 Shasta River at Edgewood  
F25420 Moffett Creek near Fort Jones  
F41510 Browns Creek near Douglas City  
F41540 Weaver Creek near Douglas City  
F42100 North Fork Trinity River at Helena  
F44500 Big Creek near Hayfork

## INDEX TO SAMPLING STATIONS

F01300.00 Smith River near Crescent City (3a)  
F21050.00 Shasta River near Yreka (1a)  
F25250.00 Scott River near Fort Jones (1b)  
F31100.00 Klamath River near Klamath (3)  
F31220.01 Klamath River at Orleans (2c)  
F31430.00 Klamath River near Seiad Valley (2b)  
F31470.00 Klamath River above Hamburg  
Reservoir Site (1c)  
F31600.00 Klamath River below Iron Gate Dam (1f)  
F34100.00 Salmon River at Somesbar (2a)  
F41090.00 Trinity River near Hoopa (4)  
F41376.00 Trinity River near Burnt Ranch (4b)  
F41640.00 Trinity River at Lewiston (4a)  
F51100.00 Mad River near Arcata (6a)  
F55100.00 Redwood Creek at Orick (3b)  
F61100.00 Eel River at Scotia (6)  
F61154.50 Eel River at South Fork (5)  
F61329.50 Eel River near Dos Rios (5d)  
F61350.00 Outlet Creek near Longvale (5b)  
F63010.00 Eel River, Middle Fork at Dos Rios (5c)  
F63050.00 Mill Creek near Covelo (5e)  
F63105.00 Williams Creek near Covelo (5f)  
F63120.00 Eel River, Middle Fork at  
Eel River Ranger Station (5g)  
F63200.00 Black Butte River near Covelo (5h)  
F64100.00 Eel River, South Fork near Miranda (7)  
F65300.00 Van Duzen River near Bridgeville (5a)  
F71100.00 Mattole River near Petrolia (7a)  
F75100.00 Bear River near Capetown (7b)

Figure B-1



- INDEX TO  
HYDROGRAPHIC UNITS
- 0 SMITH RIVER
  - 1 LOST RIVER BUTTE VALLEY
  - 2 SHASTA-SCOTT VALLEYS
  - 3 KLAMATH RIVER
  - 4 TRINITY RIVER
  - 5 MAD RIVER
  - 6 EEL RIVER
  - 7 MATTOLE RIVER

- LEGEND
- 1700 ▽ STREAM GAGING STATION
  - 1050.00 ● STREAM SAMPLING STATION
  - BOUNDARY OF NORTH COASTAL AREA
  - - - - - HYDROGRAPHIC UNIT BOUNDARY

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
NORTHERN DISTRICT

**SURFACE WATER  
MEASUREMENT & QUALITY  
MONITORING STATIONS**

1965-1966

SCALE OF MILES

0 8 16 24

TABLE B-1 ANNUAL UNIMPAIRED RUNOFF

Unimpaired runoff is defined as the flow that would occur naturally at a point in a stream if there were: (1) no upstream controls such as dams or reservoirs; (2) no artificial diversions or accretions; and (3) no change in ground water storage resulting from development.

TABLE B-1

**ANNUAL UNIMPAIRED RUNOFF**  
In Percent of Average

Water Year	Klamath River, Copco To Somesbar	Trinity River At Lewiston	Eel River At Scotia
Average Annual Runoff*	4332	1167	5146
1915-16		129	
1916-17		56	84
1917-18		52	44
1918-19		99	103
1919-20		35	28
1920-21		154	152
1921-22		67	72
1922-23		59	54
1923-24		23	17
1924-25		128	139
1925-26		69	64
1926-27		156	153
1927-28	88	91	90
1928-29	58	45	37
1929-30		70	68
1930-31	41	34	31
1931-32	77	62	70
1932-33	83	69	71
1933-34	50	59	48
1934-35	83	83	99
1935-36	92	88	112
1936-37	75	86	69
1937-38	183	180	209
1938-39	59	49	52
1939-40	104	138	142
1940-41	103	218	160
1941-42	107	155	144
1942-43	137	95	111
1943-44	63	56	44
1944-45	84	90	93
1945-46	118	121	117
1946-47	60	63	51
1947-48	99	103	92
1948-49	74	94	81
1949-50	94	73	80
1950-51	116	138	139
1951-52	153	156	156
1952-53	149	138	139
1953-54	142	136	134
1954-55	61	63	62
1955-56	191	174	198
1956-57	100	93	84
1957-58	189	231	227
1958-59	79	89	80
1959-60	80	88	91
1960-61	104	104	104
1961-62	75	89	77
1962-63	136	137	138
1963-64	92	68	67
1964-65	165	147	183
1965-66**	109	115	100

\*Average Unimpaired Runoff in Thousands of Acre-Feet  
Computed From the 50-Year Period October 1915 Through  
September 1965.

\*\*Preliminary Data Subject to Revision.





TABLE B-2  
MONTHLY UNIMPAIRED RUNOFF  
In Percent of Average

Month		Klamath River, Copco To Somesbar	Trinity River At Lewiston	Eel River At Scotia
October	Percent*		62	
1965	Average**	90	21	56
November	Percent*		219	
1965	Average**	220	47	274
December	Percent*		62	
1965	Average**	485	91	874
January	Percent*		102	
1966	Average**	152	94	1042
February	Percent*		58	
1966	Average**	44	144	58
March	Percent*		142	
1966	Average**	165	152	124
April	Percent*		157	
1966	Average**	197	214	71
May	Percent*		119	
1966	Average**	120	229	54
June	Percent*		75	
1966	Average**	54	118	47
July	Percent*		117	
1966	Average**	20	35	86
August	Percent*		169	
1966	Average**	0	13	78
September	Percent*		189	
1966	Average**	0	9	286
1965-66	Percent*		115	
Water Year	Average**	109	1167	100
		4332		5146

\*Preliminary Data Subject to Revision.

\*\*Average Unimpaired Runoff in Thousands of Acre-Feet Computed From the 50-Year Period October 1915 Through September 1965.

TABLE B-3 DAILY MEAN DISCHARGE

The streamflow table is arranged, for each stream or stream system, in downstream order. Stations on a tributary entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named after the stream and the nearest post office (e.g., Weaver Creek near Douglas City).

The discharges estimated for periods of no record or invalid record, are shown with the letter "E". Also, qualified by the letter "E" are discharges obtained from extended ratings which exceed 140 percent of the highest measured flow-rate on which the rating curve was based.

The discharge figures in this table have been rounded off as follows:

1. Daily flows - Cubic feet per second

0.0	- 9.9	nearest	Tenth
10	- 999	"	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

2. Monthly means - Cubic feet per second

0.0	- 99.9	nearest	Tenth
100	- 9,999	"	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred

3. Yearly totals - acre-feet

0.0	- 9,999	nearest	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred
1,000,000	- 9,999,999	"	Thousand

TABLE B-3

**DAILY MEAN DISCHARGE**  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	F21300	LITTLE SHASTA RIVER NEAR MONTAGUE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4.6	4.5	5.4	2.0	3.8	8.1	73 E	24	9.8	5.2	2.9	2.9	1
2	4.5	4.5	5.9	1.8	3.9	7.0	68 E	23	9.7	5.2	2.9	2.9	2
3	4.7	4.7	6.6	1.6	4.0	7.2	58	23	11	5.2	2.9	2.6	3
4	4.7	6.3	8.4	0.6	4.9	10	53	23	8.8	5.1	2.9	2.6	4
5	4.9 *	5.1	10	2.4	5.2	7.8	53	23 *	8.4	4.8	2.9	2.3	5
6	4.6	5.1	9.0	14	5.4	13	52 *	21	8.5	4.7	2.9	2.3	6
7	4.4	5.4	7.7	9.5	5.4	15	51	20	10	4.7	2.9	2.3	7
8	4.4	5.9	7.4 *	13	5.4	16	48	20	9.6	4.4 *	2.9	2.3	8
9	4.4	4.8	6.8	8.5	5.3	33 E	50	23	9.6	4.4	3.3	2.3 *	9
10	4.3	4.6	6.7	6.3	5.3	51	49	20	7.5 *	4.4	3.3	2.3	10
11	4.4	6.5	6.4	4.5	5.3	31	45	18	6.5	4.4	3.3	2.6	11
12	4.6	11	6.2	5.1	5.5	38	38	18	6.5	4.4	3.3	2.6	12
13	4.9	6.9	5.7	2.9 *	5.2	54 E	36 *	17	6.3	4.4	3.3	2.6 *	13
14	5.4	5.5	5.5	5.4	4.3	49	37	16	6.3	4.4	3.3	2.9	14
15	5.7	4.6	5.2	16	4.3	37	42	15	5.4	4.4	3.3	2.9	15
16	5.5	4.4	4.8	11	4.4	24	44	15	5.7	4.4	2.9	2.9	16
17	5.3	13	4.6	9.0	4.5	18	42	14	6.2	4.0	3.3	2.9	17
18	5.4	8.4	4.4	7.8	5.2	18	36	12	5.8	4.0	3.6	5.2	18
19	5.2	6.2	4.2	7.4	6.5	18	31	12	5.8	3.6	4.0	3.3	19
20	5.2	6.8	4.0	6.8	8.3	16	30	11	5.6	3.6	2.9	2.9	20
21	4.9	6.5	3.8	6.0	9.2	14	29	11	5.6	3.6	2.6	2.9	21
22	4.9	5.3	3.7	5.2	11	12	30	11	5.6	3.6	2.6	2.6	22
23	4.8	5.5	3.6	4.8	12	14 *	30	10	7.4	3.6	2.9	2.6	23
24	4.8	6.5	4.5	4.0	11	19	31	11	6.6	3.6	2.6	2.9	24
25	4.9	6.0	4.8	3.8	9.3	34	31	10	6.4	3.6	2.6	2.9	25
26	5.0	5.7	3.3	4.1	8.3	44	27	10	5.4	3.6	3.6	2.9	26
27	4.4	4.7	3.1	3.6	9.0	49 E	26	9.5	5.2	3.3	3.3	2.9	27
28	4.5	4.9	3.5	4.0	9.4	56 E	26	9.2	5.6	3.3	2.9	2.9	28
29	4.4	4.5	2.8	4.0		63 E	25	9.4	5.6	3.3	2.9	2.9	29
30	4.5	4.5	2.3	3.8		64 E	24	11	5.5	3.3	2.9	2.9	30
31	4.5		2.1	4.0		68 E		12		3.3	3.3		31
MEAN	4.8	5.9	5.2	5.9	6.5	29.3	40.5	15.6	7.1	4.1	3.1	2.8	MEAN
MAX.	5.7	13	10	16	12	68 E	73 E	24	11	5.2	4.0	5.2	MAX.
MIN.	4.3	4.4	2.1	0.6	3.8	7.0	24	9.2	5.2	3.3	2.6	2.3	MIN.
AC. FT.	295	354	320	363	360	1801	2410	956	420	253	180	167	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.  
 # - E AND \*

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
10.9	97	2.73	4	1	1900	0.6	1.21	1	4	0000	7890

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OH GAGE	REF. DATUM
			CFS	GAGE NT.	DATE			FROM	TO		
41 45 11	122 17 44	NW15 45N 4W	5910 E	10.66	12/22/64	28-NOV 51 8 APR 52-APR 55 SEP 56-DATE	28-NOV 51 8 APR 52-APR 55 SEP 56-DATE	1956	1964	0.00	LOCAL

Station located S of Ball Mountain Road, 12 mi. NE of Montague, 16 mi. SW of Macdoel. Stage-discharge relationship affected by ice at times. Drainage area is 48.2 sq. mi.

8 - Irrigation season only.

Station relocated upstream 1/4 mi. 5/27/65.

TABLE B-3 (Continued)

**DAILY MEAN DISCHARGE**  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	F21700	SHASTA RIVER AT EDGEWOOD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	8.1	41	62	61	80	68	326	101 E	33 E	14	4.9 E	7.1	1
2	7.6	40	61	55	70	63	312 E	106 E	31 E	17	4.9 E	6.6	2
3	7.6	40	65	63	91	61	206 E	106 E	33 E	17	4.9 E	7.6	3
4	8.1	41	63	312	237	57	154 E	109 E	31 E	16	4.9	8.1	4
5	12 *	41	68	678	151	63	112 E	112 #	31 E	13	4.9	7.1	5
6	14	47	67	831	117	81	89 #	101 E	31 E	10	4.9	6.1	6
7	14	67	66	400	94	87	104 E	94 E	33 E	8.6	4.9	6.1	7
8	19	63	64	424	82	156	120 E	85 E	31 E	9.3 *	4.9	6.1	8
9	16	21	58	194	77	245	112 E	81 E	33 E	8.7	4.9	6.1	9
10	18	17	55	140	74	286	101 E	74 E	31 *	7.6	4.9	6.6	10
11	18	13	55	111	67	172	92 E	69 E	22	6.1	4.2	5.7	11
12	19	19	53	90 *	66	176	85 E	61 E	23	5.3	4.2	6.6	12
13	20	129	51	81	60	264	81 E	58 E	19	4.9	4.2	8.1 *	13
14	27	221	47	73	60	210	70 E	51 E	15	4.9	4.5	8.7	14
15	36	311	41	83	59	174	65 E	47 E	35	4.2	4.9	8.1	15
16	36	76	41	72	55	136	65 E	43 E	33	3.9	4.2	7.6	16
17	31	315	40	62	55	104	67 E	39 E	24	3.3	4.5	7.1	17
18	34	725	40	67	57	80	69 E	37 E	24	3.6	5.7	21	18
19	35	231	40	67	71	87	70 E	37 E	22	3.9	7.1	14	19
20	34	127	34 *	62	64	69	72 E	35 E	22	4.2	6.1	13	20
21	36	97	37	59	60	63	74 E	37 E	23	3.3	5.7	12	21
22	36	85	38	59	83	60	76 E	35 E	22 *	3.3	5.7	11	22
23	35	83 *	38	59	96	58 *	81 E	35 E	23	3.3	5.3	11	23
24	34	147	39	60	105	60	83 E	35 E	23	3.3	4.9	11	24
25	35	104	40	57	82	67	85 E	35 E	21	3.1	4.9	11	25
26	36	92	40	55	73	81	87 E	35 E	19	3.1	5.3 *	11	26
27	36	80	38	54	71	102	89 E	33 E	16	3.1	8.1	10	27
28	36	69	368	58	69	132	92 E	33 E	15	4.2	8.7	10	28
29	36	63	122	245	172	94 E	94 E	31 E	15	4.5 *	9.3	10	29
30	36	66	80	142	213	99 E	99 E	33 E	14	4.5 E	9.3	7.6	30
31	39		68	94	295			31 E		4.5 E	8.7		31
MEAN	26.1	116	63.8	157	83.1	127	108	58.6	24.9	6.6	5.6	9.1	MEAN
MAX.	39	725	368	831	237	295	326	112 E	35	17	9.3	21	MAX.
MIN.	7.6	13	34	54	55	57	65 E	31 E	14	3.1	4.2	5.7	MIN.
AC. FT.	1605	6885	3925	9556	4614	7819	6411	3604	1484	408	346	540	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.  
 # - E AND \*

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.		DAY	TIME
47.9	1500	4.58	11	18	0410	3.1	2.34	7	25	0000	47300

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
41 28 20	122 26 18	SE20 42N 5W	9600 E	8.86	12/22/64	MAR 61-DATE	MAR 61-DATE	1961		0.00	LOCAL

Station located on downstream side of Edgewood Road bridge, 1.2 mi. N of Edgewood. Tributary to Dwinell Reservoir. Stage-discharge relationship affected by ice at times. Several diversions for irrigation above station including one large diversion.

TABLE B-3 (Continued)

**DAILY MEAN DISCHARGE**  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	F25420	MOFFETT CREEK NEAR FORT JONES

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.2	1.3	1.6	3.4	13	14	52	8.5	4.2	0.7	0.3	0.2	1
2	1.3	1.3	1.6	3.4	13	14	52	8.2	4.6	0.6	0.5	0.1	2
3	1.3	1.3	1.8	6.8	13	14	47	8.5	4.6	0.7	0.5	0.1	3
4	1.2	1.4	1.8	22	14	13	43	8.4	3.8	0.5	0.5	0.1	4
5	1.3 *	1.3	1.7	38	16	13	39	8.6	3.8	0.5	0.5	0.1	5
6	1.7	1.5	1.9	126	16	14	37	8.4 *	3.9	0.5	0.3	0.1	6
7	1.5	1.4	2.0	75	16	15	36	8.1	3.7	0.5	0.3	0.1	7
8	1.6	1.5	2.0	87	14	17	36	7.9	4.2	0.4 *	0.3	0.3 *	8
9	1.6	1.8	2.0 *	59	14	23	36	7.7	3.9 *	0.5	0.3	0.4	9
10	1.7	1.3	2.0	41	14	43	37	7.0	4.0	0.5	0.3	0.6	10
11	1.5	1.4	2.0	32	13	41	35	5.9	3.7	0.4	0.3	0.5	11
12	1.5	1.5	2.0	26 *	13	39	33	5.5	3.7	0.4	0.4	0.4	12
13	1.6	1.8	2.1	22	13	45	30	5.3	3.2	0.4	0.5	0.2 *	13
14	1.6	2.6	1.8	20	13	45	26 *	5.4	2.9	0.5	0.5	0.2	14
15	1.4	2.4	1.6	20	12	44	24 *	5.3	2.6	0.4	0.3	0.2	15
16	1.3	2.3	1.4	22	12	39	22	4.9	2.5	0.5	0.2	0.2	16
17	1.2	2.7	1.3	20	12	34	22	4.7	2.3	0.5	0.2	0.2	17
18	1.5	2.7	1.2	20	11	30	22	5.0	2.3	0.6	0.4	0.4	18
19	1.1	2.9	1.1	18	11	29	20	5.2	2.2	0.5	0.3	0.2	19
20	1.1	2.3	1.1	17	12	27	20	4.6	2.4	0.4	0.2	0.2	20
21	1.2	2.0	1.0	16	12	25	17	4.1	2.4	0.3	0.2	0.2	21
22	1.2	2.0	1.0	16	13	24	15	4.1	2.2	0.3	0.2	0.4	22
23	1.1	1.9	1.0	15	13	23 *	14	3.8	2.0	0.3	0.2	0.7	23
24	1.2	2.1	1.0	14	13	23	13	3.7	1.4	0.3	0.2	0.7	24
25	1.2	2.1	1.0	14	14	24	13	3.5	1.2	0.3	0.4	0.8	25
26	1.3	1.9	1.1	14 *	14	25	12	3.4	1.2	0.2	0.5 *	0.5	26
27	1.4	1.8	1.4	13	13	29	12	3.3	0.9	0.2	0.4	0.4	27
28	1.5	1.9	5.5	13	14	35	11	3.4	0.9	0.2	0.3	0.6	28
29	1.4	1.8	4.8	14		41	11	3.6	1.3	0.2	0.2	0.4	29
30	1.4	1.6	4.1	15		47	9.8	4.1	0.9	0.2	0.2	0.3	30
31	1.4		3.7	13		49		4.7		0.2	0.2		31
MEAN	1.4	1.9	1.9	27.0	13.3	29.0	26.6	5.6	2.8	0.4	0.3	0.3	MEAN
MAX.	1.7	2.9	5.5	126	16	49	52	8.6	4.6	0.7	0.5	0.8	MAX.
MIN.	1.1	1.3	1.0	3.4	11	13	9.8	3.3	0.9	0.2	0.2	0.1	MIN.
AC.FT.	84	111	118	1660	736	1781	1580	347	164	25	20	19	AC.FT.

WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.  
 # - E AND \*

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
9.18	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	6640
	164	4.07	1	06	0410	0.1	2.47	9	2	0000	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
41 38 02	122 44 50	NE27 44N 8W	680	5.59	12/23/64	OCT 52-OCT 54 JUN 57-DATE	OCT 52-OCT 54 JUN 57-DATE	1957		0.00	LOCAL
Station located 180 ft. above Old Fort Jones-Yreka Highway bridge, 5.1 mi. NE of Fort Jones. Tributary to Scott River. Stage-discharge relationship affected by ice at times. Upstream diversion with approximate flow of one cfs May through October. Drainage area is 69.8 sq. mi.											

TABLE B-3 (Continued)

**DAILY MEAN DISCHARGE**  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	F41510	BROWNS CREEK NEAR DOUGLAS CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	7.4	8.9	57	58	127 *	134	316	66	27	15	7.6	7.3	1
2	7.1	9.1	55	55	114	130	276	63	28	15	7.1	6.5	2
3	7.3	9.1	55	67	123	122	231	62	28	14	6.6	6.3	3
4	7.5	11	57	161	332	120	197	62	26	14	6.5	6.0	4
5	7.5	10 *	59	219	397	119	178	59	25	13	6.0	5.5	5
6	7.9	10	59	293 *	333	125	170	56	29	12 *	5.6	5.3	6
7	8.2	16	56	321	261	137	163	55	31	12	5.4	5.3	7
8	8.1	26	52	317	200	171	153	54	28 *	13	4.9	5.0	8
9	7.7	14	50	276	167	292	144	53	26	13	5.2	5.7	9
10	8.0	12	46	201	149	430	138	50	23	12	5.2	6.8	10
11	8.4	13	43	160	137	384	130	49	24	11	4.9	5.7	11
12	8.0	30	40	137	128	337	127 *	45 *	22	11	4.5	6.3	12
13	8.0	79	37	124	118	373	120	42	21	22	3.9	7.3	13
14	8.2	169	35	120	117	394	115	40	20	18	2.8	8.1	14
15	8.8	112	33	130	112	387	111	39	19	13	3.1 *	7.3	15
16	9.0	78	31	140	108	334	111	39	19	12	3.6	7.3 *	16
17	9.1	77	27	136	107	264	110	36	18	12	5.0	7.0	17
18	10	172	27	128	109	225	103	35	17	12	5.7	7.8	18
19	11	186	26	118	123	203	96	35	17	11	5.3	8.1	19
20	10	113	27	108	125	183	91	34	17	10	4.8	7.8	20
21	8.6	85	29	101	126	171	88	33	17	10	4.8	7.0	21
22	8.3	66	25	98	133	163 *	85	31	17	9.5	5.0	7.0	22
23	7.8	66	24	92	148	160	82	29	17	8.7	4.8	7.0	23
24	8.1	108	27	89	164	162	80	29	17	8.5	5.5	6.8	24
25	8.5	107	30	87	164	182	77	28	17	8.3	5.7	6.8	25
26	8.8	94	25	83	153	215	76	28	16	8.4	5.5	6.3	26
27	8.9	81	27	81	142	268	75	29	15	8.4	5.0	7.0	27
28	9.4	71	107	76	136	306	73	30	16	7.7	5.0	6.8	28
29	9.2	67	98	115	115	327	70	29	15	8.0	5.3	6.3	29
30	9.4	62	78	147	147	337	67	30	15	8.3	6.0	6.0	30
31	9.3	70	70	132	132	323	323	30	15	7.5	7.3	6.0	31
MEAN	8.5	65.4	45.5	141	163	241	128	41.9	20.9	11.6	5.3	6.6	MEAN
MAX.	11	186	107	321	397	430	316	66	31	22	7.6	8.1	MAX.
MIN.	7.1	8.9	24	55	107	119	67	28	15	7.5	2.8	5.0	MIN.
AC. FT.	523	3892	2801	8668	9031	14830	7642	2579	1244	711	324	396	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.  
 # - E AND \*

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
73.2	443	10.81	3	10	0620	2.2	7.77	8	14	0210	52640

LOCATION			MAXIMUM DISCHARGE				PERIOD OF RECORD				DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM		
			CFS	GAGE HT.	DATE			FROM	TO				
40 38 35	122 58 46	SE10 32N 10W	3950 E	16.60	2/18/58	JAN 57-DATE	JAN 57-DATE	1957		0.00	LOCAL		
Station located at private bridge, 2.1 mi. W of Douglas City. Tributary to Trinity River. Stage-discharge relationship affected by ice at times. Drainage area is 71.4 sq. mi.													



TABLE B-3 (Continued)

**DAILY MEAN DISCHARGE**  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	F41540	WEAVER CREEK NEAR DOUGLAS CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.6	4.9	19	27	120*	81	156	71	27	8.0	2.6	1.9	1
2	1.6	5.1	18	27	105	74	152	74	27	8.1	2.2	1.2	2
3	1.6	5.4	18	80	143	65	140	77	25	8.0	1.9	0.9	3
4	1.7	6.5	19	315	356	60	135	91	23	7.2	1.6	0.7	4
5	2.0	5.9	22	398 E	284	62	133	90	22	5.7	1.9	0.6	5
6	2.5	6.0	19*	297 *	228	68	137	80	24	5.5 *	1.9	0.4	6
7	2.5 *	12	21	204	166	84	136	74	25	5.6	1.3	0.3	7
8	2.3	14	19	187	127	215 *	131	72	22 *	6.3	1.2	0.4	8
9	2.3	8.1	17	136	105	316	133	73	20	6.4	1.3	0.4	9
10	2.4	7.0	15	94	91	342	134	71	19	6.4	1.3	0.8	10
11	2.4	7.7	14	72	80	224	134	68	17	6.1	1.5	0.9	11
12	2.6	34	14	59	71	181	124	66 *	17	5.3	1.5	1.1	12
13	2.8	36	13	54	63	204	104 *	64	16	6.3	1.3	1.3	13
14	3.0	43	11	54	59	183	97	60	16	6.0	1.0	1.5	14
15	3.6	22	10	61	56	168	100	56	16	5.3	0.9 *	1.3	15
16	3.7	16	9.3	69	53	143	111	54	15	5.0	0.9	1.1 *	16
17	4.0	18	8.7	68	52	117	114	53	14	5.5	1.0	0.9	17
18	4.1	31	8.3	63	54	102	107	51	12	4.7	1.1	1.3	18
19	4.0	33 *	8.1	59	98	99	95	51	12	4.5	0.6	1.5	19
20	4.1	21	9.1	52	105	86	88	54	12	4.9	0.6	1.3	20
21	4.1	17	8.7	49	98	80	83	50	12	4.1	0.6	1.3	21
22	4.0	15	9.3	49	105	74 *	81	47	12	3.6	0.7	1.1	22
23	3.8	19	9.6	47	128	72	83	42	12	2.8	0.7	1.0	23
24	4.0	40	8.7	43	132	75	83	40	11	2.5	0.6	0.9	24
25	3.9	44	8.7	43	126	83	89	37	9.5	2.6	0.4	0.8	25
26	4.0	39	10	43	113	96	85	35	8.5	2.5	0.6	0.9	26
27	4.3	31	9.8	42	99	107	78	36	8.9	2.3	1.1	0.9	27
28	4.7	26	125	41	88	118	74	36	8.3	1.8	1.0	0.8	28
29	4.9	22	80	180	128	128	73	33	7.9	2.1	1.1	0.7	29
30	4.9	20	47	201	139	72	72	32	8.3	2.2	1.7	0.5	30
31	4.7		38	141	147			30		3.1	2.2		31
MEAN	3.3	20.3	20.9	105	118	129	109	57.0	16.0	4.8	1.2	1.0	MEAN
MAX.	4.9	44	125	398	356	342	156	91	27	8.1	2.6	1.9	MAX.
MIN.	1.6	4.9	1.8	27	52	60	72	30	7.9	1.8	0.4	0.3	MIN.
AC. FT.	203	1210	1280	6460	6560	7920	6470	3510	951	298	76	57	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.  
 # - E AND \*

MEAN		MAXIMUM					MINIMUM					TOTAL	
DISCHARGE		DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET	
48.3		474	8.58	1	5	0250	0.3	5.67	9	7	0000	34990	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
40 40 13	122 56 33	SE36 33N 10W	3980 E	12.72	12/22/64	JAN 57-DATE	JAN 57-DATE	1957		0.00	LOCAL
Station located 2.0 mi. below State Highway 299 bridge, 1.2 mi. N of Douglas City, 4.2 mi. S of Weaverville. Tributary to Trinity River. Drainage area is 48.4 sq. mi.											

TABLE B - 3 (Continued)

**DAILY MEAN DISCHARGE**  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	F42100	NORTH FORK TRINITY RIVER AT HELENA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	24	23	160	227	431 *	392	1750 E	547	273	139	59	23	1
2	23	23	163	210	369	383	1720 E	607	239	130	56	21	2
3	23	24	180	277	342	344	1560 E	674	214	116	54	21	3
4	23	73	227	511	522	321	1540 E	845	200	111	54	21	4
5	25	49 *	506	687	728	308	1580 E	938	205	114	52	20	5
6	25	42	534 *	1540 *	706	318	1590 E	759	213	114 *	49	18 *	6
7	24	53	441	1300	586	392	1570 E	645	223	107	47	18	7
8	24	127	352	1080	482	753 *	1450 E	622	248 *	99	44	19	8
9	23	72	293	904	411	1450 E	1350	648	286	94	44	20	9
10	24	62	243	691	368	1800 E	1330	677	298	91	42	21	10
11	24	73	208	536	344	1370 E	1210	606	269	88	41	21	11
12	24	255	182	448	324	1090	1080	536 *	241	85	39	22	12
13	23	250	160	388	298	1440 E	946 *	527	270	84	38	22	13
14	26	390	147	366	289	1510 E	855	476	320	84	37	25	14
15	33	309	135	444	282	1350	945	419	328	83	35	25	15
16	29	178	123	540	278	1130	1200	402	296	82	33	25	16
17	29	180	116	530	284	995	1200	403	269	82	32	25	17
18	28	390	111	482	299	811	1020	433	248	78	32	31	18
19	28	446 *	105	443	348	746	833	498	243	78	31	33	19
20	28	285	103	394	369	677	724	561	209	75	30	28	20
21	27	219	101	349	368	628	650	550	177	71	30	29	21
22	25	181	98	329	387	574	641	475	161	71	29	29	22
23	24	172	94	298	482	568	669	390	155 *	71	28	28	23
24	24	252	100	286	510	610	725	423	153	69	28	27	24
25	24	264	100	268	484	754	787	472	144	65	27	26	25
26	24	248	95	259	431	924	772	487	148	62	26	26	26
27	24	213	102	251	405	1140	635	452	156	60 *	26	26	27
28	24	186	570	244	395	1290	581	453	165	63	26	26	28
29	24	177	450	396	1420 E	545	405	167	59	25	25	25	29
30	23	167	312	609	1570 E	531	397	147	58	26	24	24	30
31	23		271	509	1620 E		343		60	27			31
MEAN	25.0	179	219	510	412	923	1066	538	222	85.3	37.0	24.2	MEAN
MAX.	33	390	570	1540	728	1800 E	1750 E	938	328	139	59	33	MAX.
MIN.	23	23	94	210	278	308	531	343	144	58	25	18	MIN.
AC. FT.	1539	10680	13450	31330	22850	56740	63450	33060	13220	5242	2275	1438	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.  
 # - E AND \*

MEAN	MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
353	2040	11.90	3	10	0140	18	6.71	9	6	0000	255300

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 46 56	123 07 39	SW21 34N 11W	35800	27.93	12/22/64	JAN 57-DATE	JAN 57-DATE	1957		0.00	LOCAL
Station located 1.0 mi. above mouth, 0.6 mi. N of Helena. Stage-discharge relationship affected by ice at times. Drainage area is 151 sq. mi.											



TABLE B-3 (Continued)

**DAILY MEAN DISCHARGE**  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1966	F44500	BIG CREEK NEAR HAYFORK

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.4	0.4	19	31	48 *	53	190	26	9.7	6.1	0.3	1.1	1
2	0.4	0.2	20	31	42	51	185	22	9.7	5.6	0.4	0.3	2
3	0.2	1.4	22	64	44	47	176	23	9.2	3.8	0.3	0.8	3
4	0.2	3.2	25	183	68	44	168	23	9.2	5.3	0.3	0.8	4
5	0.2	2.9*	32	159	81	43	162	23	8.8	6.0	0.3	0.4	5
6	0.9	2.6	42	161 *	82	45	157	30	8.8	5.8 *	0.9	0.5	6
7	0.9 *	4.9	36	138	69	50	150	33	8.3	5.8	1.1	0.6	7
8	0.6	6.0	33	129	61	69 *	138	32	9.7	6.1	0.9	0.5	8
9	0.4	4.2	28	107	54	102	136	23	6.3	5.8	0.4	0.5	9
10	0.2	4.4	25	84	51	150	136	21	6.0	5.8	0.3	0.8	10
11	0.1	5.1	25	68	44	136	136	19	6.0	6.0	0.4	0.8	11
12	0.1	13	22	58	42	132	131 *	18 *	4.9	5.0	0.5	0.8	12
13	0.1	19	21	51	39	160	120	16	4.6	3.9	0.5	0.8	13
14	0.1	26	21	47	36	162	112	16	4.6	2.2	0.5	0.8	14
15	0.1	15	19	49	35	158	109	16	4.0	1.4	0.4 *	1.1	15
16	0.4	13	20	54	33	147	108	15	3.8	0.3	0.2	0.6	16
17	0.3	13	20	53	34	125	101	16	3.5	0.8	0.1	0.4	17
18	0.2	27	20	52	36	109	92	15	3.2	0.9	0.2	1.2	18
19	0.1	35 *	19	49	45	106	83	13	2.8	0.5	0.1	1.0	19
20	0.1	25	19	46	45	98	76	12	2.3	0.5	0.5	0.8	20
21	0.2	21	19	42	45	91	72	12	1.9	0.5	0.5	0.8	21
22	0.1	20	18	42	51	87	68	11	1.8	0.5	0.4	0.5	22
23	0.1	23	18	38	63	84	64	11	2.0 *	0.3	0.4	0.7	23
24	0.1	35	18	36	66	92	62	11	1.8	0.5	0.4	1.0	24
25	0.1	30	18	34	64	110	60	11	1.5	1.2	0.5	0.8	25
26	0.5	25	18	31	60	137	58	9.7	1.4	0.4	0.7	0.8	26
27	0.3	24	17	31	55	170	49	9.7	1.5	0.3	0.8	0.8	27
28	0.2	21	49	30	53	181	43	9.2	2.9	0.3	0.6	0.8	28
29	0.2	21	45	51	187	34	34	9.7	5.6	0.1	0.9	0.6	29
30	0.2	21	36	54	191	30	30	9.7	5.6	0.3	1.1	0.6	30
31	1.0		33	50		191		10		0.3	1.3		31
MEAN	0.3	15.4	25.1	66.2	51.6	113	107	17.0	5.1	2.7	0.5	0.7	MEAN
MAX.	1.0	35	49	183	82	191	190	33	9.7	6.1	1.3	1.2	MAX.
MIN.	0.1	0.2	17	30	33	43	30	9.2	1.4	0.1	0.1	0.3	MIN.
AC. FT.	18	917	1540	4070	2870	6960	6360	1040	300	163	32	44	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.  
 # - E AND \*

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
33.6	242	7.32	1	6	2150	0.1		10	11	0000	24320

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 33 11	123 08 35	SE7 31N 11W	1610 E	11.75	12/22/64	FEB 57-DATE	FEB 57-DATE	1957		0.00	LOCAL

Station located 30 ft. above Hayfork-Douglas City Highway bridge, 2 mi. E of Hayfork. Tributary to South Fork Trinity River via Hayfork Creek. About 5 cfs diverted above station. Drainage area is 27.1 sq. mi.

TABLE B-4 STREAMFLOW MEASUREMENTS AT MISCELLANEOUS LOCATIONS

This table shows the discharge rate of various streams at locations other than those where continuous recorders are maintained.

TABLE B-4

## STREAMFLOW MEASUREMENTS AT MISCELLANEOUS SITES

Stream	Tributary	Location	Measurements	
			Date	Discharge (cfs)
Eel River, East Branch South Fork, Near Benbow Resort	South Fork Eel River	SW $\frac{1}{4}$ , SE $\frac{1}{4}$ , Sec. 32, T4S, R4E, HB&M	10-1-65	4.4
			10-6-65	6.0
			10-28-65	5.5
Hollow Tree Creek Near Leggett	South Fork Eel River	SW $\frac{1}{4}$ , NE $\frac{1}{4}$ , Sec. 15, T23N, R17W, MDB&M	10-29-65	2.4
Indian Creek Near Moody	South Fork Eel River	NE $\frac{1}{4}$ , NW $\frac{1}{4}$ , Sec. 4, T24N, R18W, MDB&M	10-15-65	2.3
			10-26-65	1.7
Red Mountain Creek Near Piercy	South Fork Eel River	SE $\frac{1}{4}$ , NE $\frac{1}{4}$ , Sec. 17, T24N, R17W, MDB&M	10-26-65	2.8
Redwood Creek Near Redway Drainage Area = 25.5 Sq. Mi.	South Fork Eel River	SW $\frac{1}{2}$ , SW $\frac{1}{4}$ , Sec. 10, T4S, R3E, HB&M	10-6-65	0.7
			10-27-65	0.6
Salmon Creek Near Miranda	South Fork Eel River	SE $\frac{1}{4}$ , SE $\frac{1}{4}$ , Sec. 5, T3S, R3E, HB&M	10-28-65	0.6



APPENDIX C  
GROUND WATER MEASUREMENTS



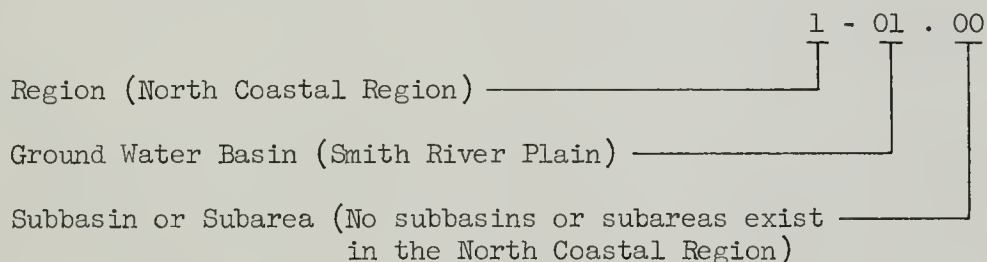
## INTRODUCTION

This appendix contains ground water level measurements from 50 wells for the period July 1, 1965, through September 30, 1966. It also contains a table which summarizes the measurements. Wells in the network are continuously reviewed and, when conditions dictate, replacement wells are located and measured.

There are nine ground water basins in the North Coastal Region for which data are reported.

Two numbering systems are used by the Department to facilitate the processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System as described below.

The regions used in this report are geographic areas defined in Section 13040 of the Water Code. That portion of Northern California covered by this report comprises the North Coastal Region No. 1. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and subbasins or subareas as follows:



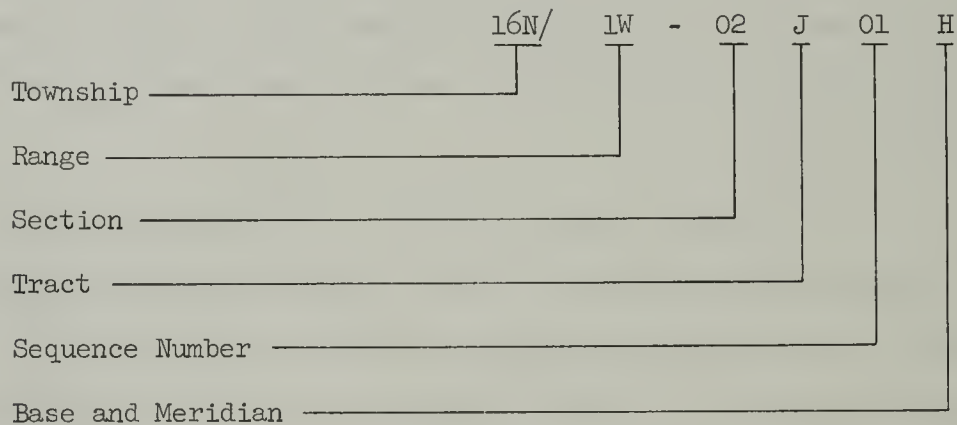
The State Well Numbering System is based on township, range, and section subdivisions of the Public Land Survey.

A section is divided into 40-acre tracts as follows:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

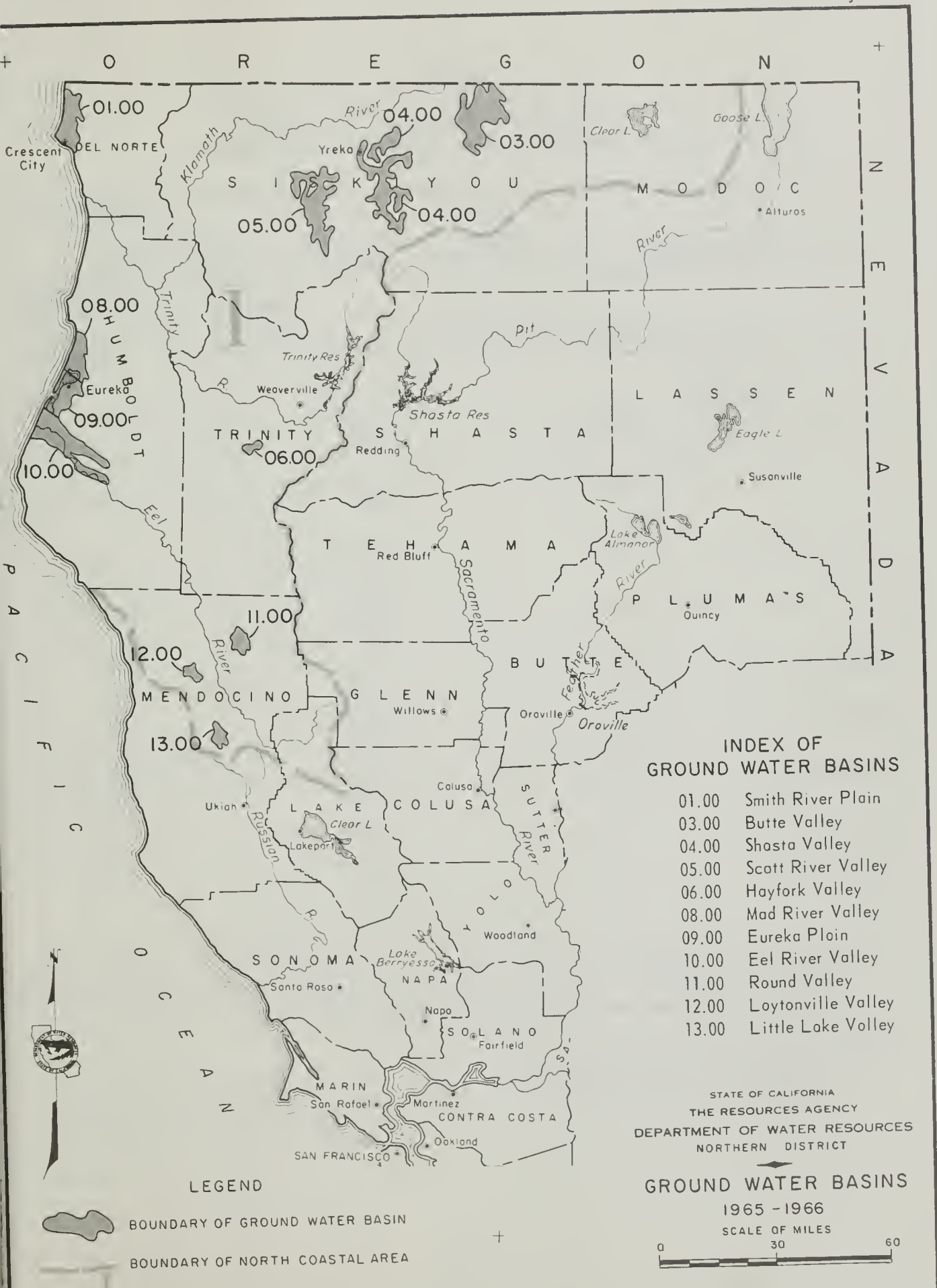
Sequence numbers in a tract are generally assigned in chronological order.

The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:



This number identifies and locates the well. In the example, the well is in Township 16 North, Range 1 West, Tract J of Section 2, located in the Humboldt Base and Meridian.





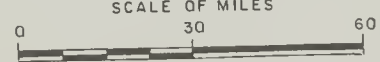
**INDEX OF GROUND WATER BASINS**

- 01.00 Smith River Plain
- 03.00 Butte Valley
- 04.00 Shasta Valley
- 05.00 Scott River Valley
- 06.00 Hayfork Valley
- 08.00 Mad River Valley
- 09.00 Eureka Plain
- 10.00 Eel River Valley
- 11.00 Round Valley
- 12.00 Loytonville Valley
- 13.00 Little Lake Volley

STATE OF CALIFORNIA  
 THE RESOURCES AGENCY  
 DEPARTMENT OF WATER RESOURCES  
 NORTHERN DISTRICT

**GROUND WATER BASINS**

1965 - 1966  
 SCALE OF MILES



**LEGEND**

- BOUNDARY OF GROUND WATER BASIN
- BOUNDARY OF NORTH COASTAL AREA

TABLE C-1

AVERAGE CHANGE OF GROUND WATER LEVELS  
AND SUMMARY OF WELL MEASUREMENTS REPORTED

Ground Water Basin		Average Change Spring 1965 to Spring 1966 in feet	Measuring Agency	Number of Wells Reported		
Name	Number			Monthly* 1965-66	Fall 1965	Spring 1966
NORTH COASTAL REGION						
Smith River Plain	1-01.00	+2	USGS DWR	4	2	2
Butte Valley	1-03.00	-3	USGS DWR	5	3	3
Shasta Valley	1-04.00	-1	USGS DWR	6	1	1
Scott River Valley	1-05.00	-6	USGS DWR	4	2	2
Mad River Valley	1-08.00	+1	USGS	2		
Eel River Valley	1-10.00	+1	USGS DWR	3	1	1
Round Valley	1-11.00	+2	USGS	6		
Laytonville Valley	1-12.00	+2	USGS DWR	3	1	1
Little Lake Valley	1-13.00	No Change	USGS DWR	3	4	4

\* Monthly wells measured by the United States Geological Survey were discontinued in the Spring of 1966. These wells will be included in the Department of Water Resources semiannual measurement grid beginning in the Fall of 1966.

USGS - United States Geological Survey  
DWR - Department of Water Resources

TABLE C-2 GROUND WATER LEVELS AT WELLS

An explanation of the column headings and the code symbols follows:

State Well Number - Refer to the explanation presented in the Introduction.

Ground Surface Elevation - The numbers in this column are the elevation in feet above mean sea level (USGS) of the ground surface at the well.

Date - The date shown in the column is the date when the depth measurement given in the next column was made.

Ground Surface to Water Surface - This is the measured depth in feet from the ground surface to the water surface in the well; some of the depth measurements in the column may be preceded by a number in parentheses to indicate a questionable measurement. The code applicable to these "questionable measurements" is as follows:

- (1) Pumping
- (2) Nearby pump operating
- (3) Casing leaking or wet
- (4) Pumped recently
- (5) Air or pressure gage measurement
- (6) Other
- (7) Recharge operation at or near well
- (8) Oil in casing
- (9) Caved or deepened

When a measurement was attempted, but could not be obtained, then only a number in parentheses is shown in the column. The code applicable to these "no measurements" is as follows:

- (1) Pumping
- (2) Pump house locked
- (3) Tape hung up
- (4) Cannot get tape in casing
- (5) Unable to locate well
- (6) Well has been destroyed
- (7) Special
- (8) Casing leaking or wet
- (9) Temporarily inaccessible
- (0) Measurements discontinued

The words FLOW and DRY are shown in this column to indicate a flowing or dry well, respectively. A minus preceding the number in this column indicates that the static water level in the well is this distance in feet above the ground surface.

TABLE C-2 GROUND WATER LEVELS AT WELLS (Cont.)

Water Surface Elevation - This is the elevation in feet above mean sea level (USGS Datum) of the water surface in the well. It was derived by subtraction of the depth measurement from the ground surface elevation.

Agency Supplying Data - Each of these numbers is the code number for the agency supplying data for that measurement. The agencies supplying data for this report and the code numbers assigned to them are as follows:

Agency Code	Agency
5000	U. S. Geological Survey
5050	Department of Water Resources

## GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SMITH RIVER PLAIN 1-01.00					
16N/O1W-02H01 H	127.0	7-14-65	(1) 24.2	102.8	5000
		8-17-65	23.1	103.9	5000
		9-24-65	21.7	105.3	5000
		10-19-65	20.6	106.4	5050
		11-09-65	20.6	106.4	5000
		1-20-66	16.1	110.9	5000
		2-16-66	15.9	111.1	5000
		3-28-66	15.6	111.4	5000
16N/O1W-17K01 H	48.0	7-14-65	19.0	29.0	5000
		8-17-65	20.5	27.5	5000
		9-24-65	21.9	26.1	5000
		10-19-65	22.6	25.4	5050
		11-09-65	20.9	27.1	5000
		1-20-66	13.5	34.5	5000
		2-16-66	12.5	35.5	5000
		3-25-66	10.2	37.8	5000
17N/O1W-02P01 H	31.0	7-14-65	21.8	9.2	5000
		8-17-65	22.6	8.4	5000
		9-24-65	22.4	8.6	5000
		10-19-65	15.2	15.8	5050
		11-09-65	21.6	9.4	5000
		1-20-66	15.8	15.2	5000
		2-16-66	16.5	14.5	5000
		3-28-66	15.9	15.1	5000
17N/O1W-03B01 R	14.0	10-19-65	14.5	-0.5	5050
		4-05-66	9.6	4.4	5050
17N/O1W-15M02 H	21.0	10-19-65	17.3	3.7	5050
		4-05-66	7.6	13.4	5050
SMITH RIVER PLAIN 1-01.00					
18N/O1W-026P01 H	38.0	7-14-65	21.8	16.2	5000
		8-17-65	25.2	12.8	5000
		9-24-65	26.7	11.3	5000
		10-19-65	16.9	21.1	5050
		11-09-65	22.4	15.6	5000
		1-20-66	15.6	22.4	5000
		2-16-66	16.9	21.1	5000
		3-28-66	16.3	21.7	5000
BUTTE VALLEY 1-03.00					
45N/O2W-03A01 M	4260.1	11-03-65	26.3	4233.8	5050
		4-05-66	25.3	4234.8	5050
46N/O1E-06N01 M	4242.4	7-15-65	27.3	4215.1	5000
		8-17-65	30.6	4211.8	5000
		9-25-65	23.0	4219.4	5000
		10-28-65	21.8	4220.6	5000
		11-03-65	22.1	4220.3	5050
		12-03-65	20.9	4221.5	5000
		1-11-66	20.0	4222.4	5000
		2-04-66	20.2	4222.2	5000
		3-03-66	19.5	4222.9	5000
		4-04-66	19.2	4223.2	5000
46N/O2W-25R02 M	4256.2	7-15-65	(1) 47.4	4208.8	5000
		8-17-65	40.1	4216.1	5000
		9-25-65	30.0	4226.2	5000
		10-28-65	27.8	4228.4	5000
		11-03-65	27.9	4228.3	5050
		12-03-65	26.7	4229.5	5000
		1-11-66	26.8	4229.4	5000
		2-04-66	26.8	4229.4	5000
		3-03-66	26.7	4229.5	5000
		4-04-66	26.1	4230.1	5000

TABLE C-2 (Continued)

# GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SHASTA VALLEY 1-04.00					
42N/05W-20T01 M 2882.0					
		7-15-65	4.5	2877.5	5000
		8-17-65	4.6	2877.4	5000
		9-25-65	3.6	2878.4	5000
		10-28-65	4.8	2877.2	5000
		11-03-65	5.6	2876.4	5050
		12-03-65	5.2	2876.8	5000
		1-10-66	4.2	2877.8	5000
		1-31-66	5.0	2877.0	5000
		3-04-66	5.9	2876.1	5000
		4-05-66	4.0	2878.0	5000
42N/06W-10T01 M 2835.0					
		7-15-65	6.4	2828.6	5000
		8-17-65	7.2	2827.8	5000
		9-25-65	7.9	2827.1	5000
		10-28-65	10.3	2824.7	5000
		11-03-65	10.4	2824.6	5050
		12-03-65	9.9	2825.1	5000
		1-10-66	7.8	2827.2	5000
		1-31-66	7.7	2827.3	5000
		3-04-66	8.3	2826.7	5000
		4-05-66	8.0	2827.0	5000
43W/06W-22A01 M 2665.0					
		7-15-65	(1) 15.7	2649.3	5000
		8-17-65	(1)		5000
		9-25-65	(1) 22.3	2642.7	5000
		11-03-65	(1) 10.3	2654.7	5050
		11-03-65	(1)		5000
		12-03-65	(1)		5000
		1-10-66	(1)		5000
		2-04-66	(1)		5000
		3-04-66	5.5	2659.5	5000
		4-05-66	(1)		5000
44W/05W-34H01 M 2637.0					
		7-15-65	24.8	2612.2	5000
		8-17-65	23.5	2613.5	5000
		9-25-65	25.2	2611.8	5000
		10-28-65	25.2	2611.8	5000
		11-03-65	25.5	2611.5	5050

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
BUTE VALLEY 1-03.00					
47W/01W-14B01 M 4233.7					
		7-15-65	11.1	4222.6	5000
		8-17-65	10.6	4223.1	5000
		9-25-65	10.7	4223.0	5000
		10-28-65	10.8	4222.9	5000
		11-03-65	10.9	4222.8	5050
		12-03-65	10.9	4222.8	5000
		1-11-66	10.3	4223.4	5000
		2-04-66	10.7	4223.0	5000
		3-03-66	10.3	4223.4	5000
		4-04-66	10.6	4223.1	5000
47W/01W-17B01 M 4239.8					
		11-03-65	10.1	4229.7	5050
		4-05-66	8.9	4230.9	5050
47W/01W-19B01 M 4237.7					
		11-03-65	5.8	4231.9	5050
		4-05-66	5.5	4232.2	5050
47W/01W-27B01 M 4233.4					
		7-15-65	8.6	4224.8	5000
		8-17-65	9.0	4224.4	5000
		9-25-65	9.1	4224.3	5000
		10-28-65	9.3	4224.1	5000
		11-03-65	9.4	4224.0	5050
		12-03-65	9.3	4224.1	5000
		1-11-66	8.3	4225.1	5000
		2-04-66	8.8	4224.6	5000
		3-03-66	7.9	4225.5	5000
		4-04-66	8.4	4225.0	5000
48W/01W-26B01 M 4244.2					
		7-15-65	(1) 23.7	4220.5	5000
		8-17-65	18.0	4226.2	5000
		9-25-65	17.7	4226.5	5000
		10-28-65	18.2	4226.0	5000
		11-03-65	18.6	4225.6	5050
		12-03-65	23.0	4221.2	5000
		1-11-66	17.5	4226.7	5000
		2-04-66	17.7	4226.5	5000
		3-03-66	18.9	4225.3	5000
		4-04-66	(7)		5000



## GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SHASTA VALLEY 1-04.00					
44W/05W-34H01 M (Cont.)	2637.0	12-03-65	26.4	2610.6	5000
		1-10-66	27.3	2609.7	5000
		2-03-66	27.8	2609.2	5000
		3-03-66	28.2	2608.8	5000
		4-04-66	29.4	2607.6	5000
44W/06W-10F01 M	2537.0	11-03-65	19.4	2517.6	5050
		4-05-66	16.9	2520.1	5050
45W/05W-29B01 M	2635.0	7-15-65	17.4	2617.6	5000
		8-17-65	17.4	2617.6	5000
		9-25-65	(1) 18.6	2616.4	5000
		10-28-65	18.2	2616.8	5000
		11-02-65	18.5	2616.5	5050
		12-03-65	19.3	2615.7	5000
		1-10-66	20.4	2614.6	5000
		1-31-66	20.8	2614.2	5000
		3-04-66	21.7	2613.3	5000
		4-05-66	(1)		5000
45W/06W-19E01 M	2538.0	7-15-65	22.9	2515.1	5000
		8-17-65	22.5	2515.5	5000
		9-25-65	(1) 20.4	2517.6	5000
		10-28-65	19.2	2518.8	5000
		11-02-65	20.3	2517.7	5050
		12-03-65	19.8	2518.2	5000
		1-10-66	19.0	2519.0	5000
		1-31-66	18.3	2519.7	5000
		3-04-66	19.0	2519.0	5000
		4-05-66	18.5	2519.5	5000
42N/09W-02A02 M	2746.0	11-02-65	10.5	2735.5	5050
		4-04-66	9.5	2736.5	5050
SCOTT RIVER VALLEY 1-05.00					
42N/09W-08C03 M	2836.0	7-15-65	35.5	2800.5	5000
		8-17-65	42.0	2794.0	5000
		9-25-65	48.2	2787.8	5000
		11-02-65	53.2	2782.8	5050
		11-05-65	57.9	2778.1	5000
		12-03-65	55.2	2780.8	5000
		1-10-66	51.5	2784.5	5000
		2-03-66	46.8	2789.2	5000
		3-04-66	45.1	2790.9	5000
		4-05-66	42.2	2793.8	5000
42N/09W-27N01 M	2930.0	7-15-65	3.1	2926.9	5000
		8-17-65	5.6	2924.4	5000
		9-25-65	2.7	2923.3	5000
		11-02-65	6.9	2923.1	5050
		(7)			5000
		12-03-65	2.8	2927.2	5000
		1-10-66	1.3	2928.7	5000
		2-03-66	2.4	2927.6	5000
		3-04-66	2.9	2927.1	5000
		4-05-66	2.7	2927.3	5000
43W/09W-23F01 M	2728.0	11-02-65	6.0	2722.0	5050
		4-04-66	4.0	2724.0	5050
43W/09W-24F01 M	2735.0	7-15-65	(1)		5000
		8-17-65	(1)		5000
		9-25-65	(1)		5000
		11-02-65	7.4	2727.6	5050
		12-03-65	7.3	2727.7	5000
		1-10-66	8.3	2726.7	5000
		1-10-66	6.9	2728.1	5000
		2-03-66	8.0	2727.0	5000
		3-04-66	9.3	2725.7	5000
		4-05-66	9.6	2725.4	5000

TABLE C-2 (Continued)

## GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SCOTT RIVER VALLEY 1-05.00					
44N/09W-28P01 M	2711.0	7-15-65	8.3	2702.7	5000
		8-17-65	15.7	2695.3	5000
		9-25-65	14.5	2696.5	5000
		10-29-65	23.8	2687.2	5000
		11-02-65	(2)		5050
		12-03-65	26.1	2684.9	5000
		1-10-66	20.0	2691.0	5000
		2-03-66	14.8	2696.2	5000
		3-04-66	9.3	2701.7	5000
		4-05-66	8.4	2702.6	5000
MAD RIVER VALLEY 1-08.00					
06N/01E-06H01 H	151.0	7-14-65	10.4	140.6	5000
		8-18-65	(1)		5000
		9-24-65	14.0	137.0	5000
		10-19-65	14.2	136.8	5050
		11-09-65	16.6	134.4	5000
		1-20-66	2.9	148.1	5000
		2-16-66	2.6	148.4	5000
		3-29-66	2.0	149.0	5000
06N/01E-29P01 H 25.0					
		7-14-65	10.5	14.5	5000
		8-18-65	9.9	15.1	5000
		9-24-65	17.1	7.9	5000
		10-19-65	12.9	12.1	5050
		11-09-65	12.2	12.8	5000
		1-20-66	12.6	12.4	5000
		2-16-66	7.7	17.3	5000
		3-29-66	6.9	18.1	5000
EEL RIVER VALLEY 1-10.00					
02N/01W-08B01 H	34.0	10-20-65	21.5	12.5	5050
		4-06-66	13.9	20.1	5050
EEL RIVER VALLEY 1-10.00					
03M/01W-18D01 H *	15.0	7-14-65	2.2	12.8	5000
		8-18-65	2.4	12.6	5000
		9-24-65	2.6	12.4	5000
		10-20-65	2.5	12.5	5050
		11-09-65	3.0	12.0	5000
		1-20-66	3.2	11.8	5000
		2-16-66	2.6	12.4	5000
		3-29-66	1.8	13.2	5000
		5-06-66	1.6	13.4	5000
03M/01W-34J01 H 53.0					
		7-14-65	33.1	19.9	5000
		8-18-65	33.7	19.3	5000
		9-24-65	34.2	18.8	5000
		10-20-65	34.5	18.5	5050
		11-09-65	34.5	18.5	5000
		1-20-66	31.3	21.7	5000
		2-16-66	31.2	21.8	5000
		3-29-66	30.9	22.1	5000
		5-06-66	31.7	21.3	5000
03M/02W-26R01 H 12.0					
		7-14-65	8.0	4.0	5000
		8-18-65	9.2	2.8	5000
		9-24-65	9.4	2.6	5000
		10-20-65	10.5	1.5	5050
		11-09-65	9.4	2.6	5000
		1-20-66	3.3	8.7	5000
		2-16-66	3.6	8.4	5000
		3-29-66	3.7	8.3	5000
		5-06-66	5.7	6.3	5000

\* All previously published elevations are to be corrected by subtracting 9.0 feet.



TABLE C-2 (Continued)

**GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
ROUND VALLEY 1-11.00											
22W/12W-04B01 M 1351.0											
		7-13-65	8.9	1342.1	5000			7-13-65	0.5	1388.0	5000
		8-18-65	11.8	1339.2	5000		1388.5	8-18-65	4.6	1383.9	5000
		9-23-65	13.6	1337.4	5000			9-23-65	(1)		5000
		10-06-65	13.2	1337.8	5050			10-06-65	5.1	1383.4	5050
		11-10-65	15.3	1335.7	5000			11-10-65	8.4	1380.1	5000
		12-09-65	7.2	1343.8	5000			12-09-65	- 3.0	1391.5	5000
		1-19-66	5.7	1345.3	5000			1-19-66	- 9.1	1397.6	5000
		2-23-66	5.7	1345.3	5000			2-23-66	FLOW		5000
		4-06-66	6.2	1344.8	5000			4-06-66	- 9.2	1397.7	5000
		4-20-66	6.3	1344.7	5000			4-21-66	- 8.5	1397.0	5000
22W/12W-06L03 M 1369.7											
		7-13-65	10.3	1359.4	5000		1409.5	7-13-65	16.8	1392.7	5000
		8-18-65	16.3	1353.4	5000			8-18-65	21.9	1387.6	5000
		9-23-65	1.0	1368.7	5000			9-23-65	26.0	1383.5	5000
		10-06-65	0.9	1368.8	5050			10-06-65	27.1	1382.4	5050
		11-10-65	0.8	1368.9	5000			11-10-65	28.3	1381.2	5000
		12-09-65	-10.9	1380.6	5000			12-09-65	15.7	1393.8	5000
		1-19-66	-10.4	1380.1	5000			1-19-66	7.5	1402.0	5000
		2-23-66	FLOW		5000			2-23-66	8.6	1400.9	5000
		4-06-66	- 7.8	1377.5	5000			4-06-66	9.1	1400.4	5000
		4-20-66	-10.8	1380.5	5000			4-21-66	8.7	1400.8	5000
22W/13W-12R01 M 1400.0											
		7-13-65	14.0	1386.0	5000		1403.0	7-13-65	9.5	1393.5	5000
		8-18-65	19.7	1380.3	5000			8-18-65	13.7	1389.3	5000
		9-23-65	24.4	1375.6	5000			9-23-65	17.4	1385.6	5000
		10-06-65	26.0	1374.0	5050			10-06-65	18.3	1384.7	5050
		11-10-65	29.0	1371.0	5000			11-10-65	19.7	1383.3	5000
		12-09-65	22.8	1377.2	5000			12-09-65	10.2	1392.8	5000
		1-19-66	4.6	1395.4	5000			1-19-66	- 0.8	1403.8	5000
		2-23-66	4.8	1395.2	5000			2-23-66	0.4	1402.6	5000
		4-05-66	5.2	1394.8	5000			4-06-66	1.1	1401.9	5000
		4-20-66	6.3	1393.7	5000			4-21-66	1.9	1401.1	5000

TABLE C-2 (Continued)

## GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LAYTONVILLE VALLEY 1-12.00											
2LN/14W-30M01 M	1688.0	7-13-65	13.2	1674.8	5000	18N/13W-08L01 M	1340.0	12-09-65	3.9	1336.1	5000
		8-18-65	10.0	1678.0	5000	(Cont.)		1-18-66	1.1	1338.9	5000
		9-23-65	15.8	1672.2	5000			2-23-66	0.5	1339.5	5000
		9-29-65	17.5	1670.5	5050			3-23-66	0.8	1339.2	5000
		11-10-65	16.4	1671.6	5000			4-20-66	1.8	1338.2	5000
		12-09-65	8.2	1679.8	5000	18N/13W-16M01 M	1380.0	9-29-65	14.6	1365.4	5050
		1-19-66	5.0	1683.0	5000			4-06-66	5.4	1374.6	5050
		2-23-66	4.0	1684.0	5000						
		4-05-66	4.9	1683.1	5000	18N/13W-17J01 M	1370.0	7-13-65	11.4	1358.6	5000
		4-18-66	4.1	1683.9	5000			8-18-65	14.9	1355.1	5000
2LN/15W-01L02 M	1682.0	10-05-65	13.7	1668.3	5050			9-23-65	16.9	1353.1	5000
		4-06-66	4.9	1677.1	5050			9-29-65	17.0	1353.0	5050
2LN/15W-12M02 M	1630.0	7-13-65	15.9	1614.1	5000			11-10-65	16.9	1353.1	5000
		8-17-65	15.6	1614.4	5000			12-09-65	15.2	1354.8	5000
		9-23-65	16.4	1613.6	5000			1-18-66	9.1	1360.9	5000
		9-29-65	16.3	1613.7	5050			2-23-66	6.6	1363.4	5000
		11-10-65	17.5	1612.5	5000			3-23-66	5.8	1364.2	5000
		12-09-65	(1)		5000			4-20-66	6.2	1363.8	5000
		1-19-66	8.5	1621.5	5000	18N/13W-18E01 M	1365.0	7-13-65	23.8	1341.2	5000
		2-23-66	4.6	1625.4	5000			8-18-65	28.5	1336.5	5000
		4-05-66	(1)	1622.8	5000			9-23-65	27.4	1337.6	5000
		4-18-66	(1)	1623.1	5000			9-29-65	30.7	1334.3	5050
2LN/15W-24A01 M	1653.0	7-13-65	5.9	1647.1	5000			11-10-65	29.2	1335.8	5000
		8-18-65	8.5	1644.5	5000			12-09-65	24.5	1340.5	5000
		9-23-65	11.2	1641.8	5000			1-18-66	22.7	1342.3	5000
		9-29-65	11.6	1641.4	5050			2-23-66	25.7	1339.3	5000
		11-10-65	13.3	1639.7	5000			3-23-66	24.2	1340.8	5000
		12-09-65	4.2	1648.8	5000			4-20-66	24.1	1340.9	5000
		1-19-66	2.6	1650.4	5000	18N/13W-20H03 M	1385.0	10-05-65	7.8	1377.2	5050
		2-23-66	1.2	1651.8	5000			4-06-66	4.6	1380.4	5050
		4-05-66	2.8	1650.2	5000	19N/13W-32F01 M	1347.0	10-05-65	15.2	1331.8	5050
		4-18-66	1.8	1651.2	5000			4-06-66	6.8	1340.2	5050
LITTLE LAKE VALLEY 1-13.00											
18N/13-08L01 M	1340.0	7-13-65	(1)	1334.7	5000	19N/13W-32L02 M	1350.0	10-05-66	16.0	1334.0	5050
		8-18-65	7.7	1332.3	5000			4-06-66	10.6	1339.4	5050
		9-23-65	8.6	1331.4	5000						
		9-29-65	8.8	1331.2	5050						
		11-10-65	9.8	1330.2	5000						

APPENDIX D

SURFACE WATER QUALITY



## INTRODUCTION

This appendix presents surface water quality data collected during the period from October 1, 1965, through September 30, 1966. The data were collected from 27 stream stations in the North Coastal Area.

At the time of field sampling, dissolved oxygen, pH, and temperature measurements are made and gage height and time are noted. Comments on local conditions are noted in field books which are available in the files of the Department of Water Resources.

The mineral constituents were determined in accordance with methods presented in the U. S. Geological Survey Water-Supply Paper 1454, "Methods for Collection and Analyses of Water Samples". The analysis for trace elements is in accordance with the U. S. Geological Survey Water-Supply Paper 1540-B, "Concentration Method for the Spectro-Chemical Determination of Minor Elements in Water".

Each station in this appendix has been assigned a station number. The numbering system is described in Appendix B, "Surface Water Measurements". A sequential number (formerly employed) follows each station name for reference.



TABLE D-1  
**SAMPLING STATION DATA AND INDEX**  
**North Coastal Area**

Station	Station Number	Location MDB & M	Beginning of Record	Frequency of Sampling	Analyses on Page
Bear River near Capetown (7b)	F75100.00	01N-03W-13 <sup>a</sup>	MAY 1964	Semiannually	59, 89
Black Butte River near Covelo (5h)	F63200.00	23N-11W-28	NOV. 1964	Monthly	60, 89
Eel River above Outlet Creek near Dos Rios (5d) (formerly published as "near Dos Rios")	F61329.50	21N-13W-31	APR. 1958	Monthly	61, 87, 89
Eel River at South Fork (5) (formerly published as "near McCann")	F61154.50	01S-03E-04 <sup>a</sup>	APR. 1951	Monthly	62, 89
Eel River, Middle Fork at Dos Rios (5c)	F63010.00	21N-13W-06	APR. 1958	Monthly	63, 87, 91
Eel River, Middle Fork at Eel River Ranger Station (5g)	F63120.00	23N-11W-28	FEB. 1965	Monthly	64, 91
Eel River at Scotia (6)	F61100.00	02N-01E-31 <sup>a</sup>	APR. 1951	Monthly	65, 87, 89
Eel River, South Fork near Miranda (7)	F64100.00	03S-04E-30 <sup>a</sup>	APR. 1951	Monthly	66, 92
Klamath River above Hamburg Reservoir Site (1c)	F31470.00	46N-10W-14	DEC. 1958	Monthly	67, 89
Klamath River below Iron Gate Dam (1f)	F31600.00	47N-05W-17	DEC. 1961	Monthly	68, 87, 90
Klamath River near Klamath (3)	F31100.00	13N-01E-24 <sup>a</sup>	APR. 1951	Monthly	69, 87, 90
Klamath River at Orleans (2c)	F31220.01	11N-06E-31 <sup>a</sup>	JAN. 1964	Monthly	70, 87, 90
Klamath River near Seiad Valley (2b)	F31430.00	46N-12W-03	DEC. 1958	Monthly	71, 87, 90
Mad River near Arcata (6a)	F51100.00	06N-01E-15 <sup>a</sup>	NOV. 1958	Monthly	72, 87, 90
Mattole River near Petrolia (7a)	F71100.00	02S-02W-11 <sup>a</sup>	JAN. 1959	Monthly	73, 90
Mill Creek near Covelo (5e)	F63050.00	22N-12W-22	FEB. 1965	Monthly	74, 91
Outlet Creek near Longvale (5b)	F61350.00	20N-14W-01	MAY 1958	Monthly	75, 91
Redwood Creek at Orick (3b)	F55100.00	10N-01E-04 <sup>a</sup>	NOV. 1958	Monthly	76, 91
Salmon River at Someshar (2a)	F34100.00	11N-06E-02 <sup>a</sup>	NOV. 1958	Semiannually	77, 91
Scott River near Fort Jones (1b)	F25250.00	44N-10W-29	DEC. 1958	Monthly	78, 91
Shasta River near Yreka (1a)	F21050.00	46N-07W-24	DEC. 1958	Monthly	79, 92
Smith River near Crescent City (3a)	F01300.00	16N-01E-10 <sup>a</sup>	APR. 1951	Monthly	80, 92
Trinity River near Burnt Ranch (4b)	F41376.00	05N-07E-19 <sup>a</sup>	APR. 1958	Monthly	81, 92
Trinity River near Hoopa (4)	F41090.00	08N-05E-31 <sup>a</sup>	APR. 1951	Monthly	82, 87, 92
Trinity River at Lewiston (4a)	F41640.00	33N-08W-17	APR. 1951	Monthly	83, 92
Van Duzen River near Bridgeville (5a)	F65300.00	01N-03W-17 <sup>a</sup>	APR. 1958	Monthly	84, 93
Williams Creek near Covelo (5f)	F63105.00	23N-12W-24	FEB. 1965	Monthly	85, 93

o-H B & M

TABLE D-2 MINERAL ANALYSES OF SURFACE WATER

An explanation of column headings follows:

Lab - 5000 U. S. Geological Survey

5050 Department of Water Resources

G.H. - The instantaneous gage height in feet above an established datum.

Q - The instantaneous discharge measured in cubic feet per second (cfs).

DO - The dissolved oxygen content in milligrams per liter is listed first and is followed by the percent saturation.

EC - The specific conductance in micromhos at 25° centigrade.

TDS - Gravimetric determination of total dissolved solids in milligrams per liter.

SUM - Determined by addition of analyzed constituents.



## MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. O	DO SAT	TEMP F	PH LAR FLD	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIGRAMS PER LITER					
						CA	MG	NA	K	CO <sub>3</sub>	HCO <sub>3</sub>	SO <sub>4</sub>	CL	NO <sub>3</sub>	F	B	SI0 <sub>2</sub>	TDS SUM	TM NCH
F75100.00 10/13/65 1000	7.0	10.5 105	60 F	8.3 8.0	336	--	--	12 .52	--	2.0 .07	142 2.33	--	7.0 .20	--	--	0.2	--	--	145 25
F75100.00 05/17/66 1210	60	9.7 108	70 F	8.2 8.0	252	35 1.75 68	5.5 .45 17	8.3 .36 14	1.2 .03 1	0.0	114 1.87 70	30 .62 23	6.6 .19 7	0.1	0.2	0.1	8.9	15A 152	110 17
F75100.00 09/14/66 0855	3.0	10.3 104	61 F	8.2 8.1	378	58 2.89 71	7.3 .60 15	12 .52 13	1.7 .04 1	0.0	178 2.92 72	45 .94 23	7.0 .20 5	0.4 .01	--	0.1	8.2	240 227	174 28

BEAR RIVER NEAR CAPE TOWN (7b)

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. Q	DO SAT	TEMP F	PH LAB FLD	EC LAB FLD	MILLIGRAMS PER LITER										TDS SUM	TM NCH		
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F			θ	SI02
BLACK BUTTE RIVER NEAR COVELO (5h)																			
F63200.00 10/14/65 0915	10.11	8.7 92	61 F	8.3 7.7	402	--	--	7.1 .31	--	2.0 .07	156 2.56	--	2.0 .06	0.1	--	0.0	--	--	187 56
F63200.00 11/11/65 1105	10.28	10.1 100	55 F	8.4 8.0	427	--	--	7.2 .31	--	5.0 .17	151 2.48	--	2.6 .07	2.0 .03	--	0.1	--	--	214 82
F63200.00 12/08/65 1420		11.7 100	44 F	8.3 7.7	204	--	--	4.4 .19	--	1.0 .03	87 1.43	--	1.2 .03	0.2	--	0.0	--	--	94 21
F63200.00 01/13/66 1120	13.24	12.6 103	41 F	8.2 7.7	174	--	--	3.5 .15	--	0.0	80 1.31	--	0.7 .02	0.4 .01	--	0.0	--	--	79 14
F63200.00 02/17/66 1000	13.10	12.9 102	38 F	8.3 7.6	210	--	--	4.1 .18	--	1.0 .03	95 1.56	--	0.5 .01	0.2	--	0.0	--	--	99 20
F63200.00 03/16/66 1515	14.02	12.0 99	41 F	8.1 7.6	144	--	--	3.2 .14	--	0.0	69 1.13	--	0.8 .02	0.7 .01	--	0.0	--	--	65 9
F63200.00 04/12/66 1255	14.60	11.3 100	46 F	8.1 7.6	121	--	--	2.7 .12	--	0.0	61 1.00	--	0.4 .01	0.8 .01	--	0.0	--	--	56 6
F63200.00 05/16/66 1345	13.80 142	8.4 93	63 F	8.1 8.0	154	25 1.25 79	2.3 .19 12	3.1 .13 8	0.8 .02 1	0.0	76 1.25 80	14 .29 18	0.8 .02 1	0.7 .01 1	--	0.0	8.5	97 92	72 10
F63200.00 06/13/66 1320	13.19 52	7.7 100	80 F	8.3 8.0	242	--	--	5.9 .26	--	1.0 .03	114 1.87	--	1.1 .03	--	--	0.1	--	--	115 20
F63200.00 07/20/66 0730	3.84 21	7.7 87	67 F	8.5 7.9	326	--	--	5.5 .24	--	4.0 .13	135 2.21	--	1.4 .04	0.2	--	0.0	--	--	160 43
F63200.00 08/17/66 1510	8.98 10	7.9 101	79 F	8.3 8.2	379	--	--	6.3 .27	--	2.0 .07	148 2.43	--	1.8 .05	0.5 .01	--	0.0	--	--	189 64
F63200.00 09/14/66 5000	14.67 6.0	8.0 94	70 F	8.1 8.0	397	64 3.19	8.4 .69	6.3 .27	1.5 .04	0.0	145 2.38	85 1.77	1.8 .05	0.1	--	0.1	9.0	260 247	194 75

## MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. Q	DO SAT	TEMP	PH FLD	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				TH NCH	
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	R	SI02		TDS SUM
F61329.50 10/14/65 1140		9.2 98	63 F	8.2 8.0	285	--	--	11 .48	--	0.0	168 2.76	--	6.7 .19	0.3	--	0.4	--	--	120 0
F61329.50 11/11/65 0905		9.9 99	58 F	8.5 7.8	316	--	--	11 .48	--	5.0 .17	139 2.28	--	8.0 .23	1.8 .03	--	0.6	--	--	141 19
F61329.50 12/09/65 0930		11.4 101	48 F	8.3 7.8	217	--	--	7.1 .31	--	1.0 .03	105 1.72	--	3.9 .11	0.5 .01	--	0.2	--	--	97 10
F61329.50 01/12/66 1450		12.2 102	44 F	8.1 7.6	133	--	--	4.3 .19	--	0.0	69 1.13	--	1.7 .05	0.4 .01	--	0.0	--	--	58 2
F61329.50 02/16/66 1505		12.2 104	45 F	8.2 7.6	154	--	--	4.9 .21	--	0.0	80 1.31	--	1.3 .04	0.4 .01	--	0.1	--	--	68 3
F61329.50 03/16/66 1205		11.7 104	48 F	8.2 7.4	137	--	--	4.4 .19	--	0.0	72 1.18	--	1.5 .04	0.7 .01	--	0.1	--	--	60 1
F61329.50 04/12/66 1015		11.0 103	52 F	8.1 7.4	129	--	--	4.3 .19	--	0.0	68 1.12	--	0.8 .02	0.5 .01	--	0.1	--	--	57 1
F61329.50 05/16/66 1135		8.4 96	70 F	8.3 8.1	231	28 1,40 58	8.5 .70 29	6.6 .29 12	1.3 .03 1	1.0 .03 1	121 1.98 81	17 .35 14	3.3 .09 4	0.2	0.2	0.2	10	135 136	105 5
F61329.50 06/13/66 1100		9.3 112	75 F	8.5 8.1	244	--	--	8.2 .36	--	2.0 .07	121 1.98	--	4.0 .11	--	--	0.3	--	--	112 10
F61329.50 07/20/66 1015		9.2 107	71 F	8.5 8.3	252	--	--	10 .44	--	3.0 .10	113 1.85	--	5.0 .14	0.6 .01	--	0.3	--	--	110 13
F61329.50 08/17/66 1340	6.3	11.2 147	83 F	8.6 8.4	258	--	--	11 .48	--	4.0 .13	104 1.71	--	6.5 .18	0.6 .01	--	0.3	--	--	109 17
F61329.50 09/14/66 1435		12.1 146	74 F	8.4 8.4	256	27 1.35 53	8.4 .69 27	11 .48 19	1.5 .04 2	3.0 .10	97 1.59 60	35 .73 27	8.0 .23 9	0.8 .01	--	0.3	5.4	143 148	102 18

EEL RIVER ABOVE OUTLET CREEK NEAR DOS RIOS (5d)

TABLE 0-2 (Continued)  
**MINERAL ANALYSES OF SURFACE WATER**

EEL RIVER AT SOUTH FORK (5)

STATION NUMBER DATE TIME	G.M. Q	DO SAT	TEMP F	PH LAR FLO	EC LAR FLD	MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER										MILLIGRAMS PER LITER			
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	θ	SiO2	TDS SUM	TH NCH
F61154.50 10/13/65 5000 5050 1220		9.3 96	62 F	8.3 7.9	345	--	--	8.8 .38	--	3.0 .10	169 2.77	--	7.1 .20	--	0.1	--	--	163 20	
F61154.50 11/10/65 5000 5050 1110		9.7 94	57 F	8.5 7.8	392	--	--	9.5 .41	--	5.0 .17	178 2.92	--	8.7 .25	--	0.2	--	--	198 44	
F61154.50 12/08/65 5000 5050 0900		11.5 101	49 F	8.2 7.6	194	--	--	5.9 .26	--	0.0	91 1.49	--	0.2 .01	--	0.0	--	--	88 14	
F61154.50 01/12/66 5000 5050 1030		12.2 100	44 F	8.2 7.7	155	--	--	4.1 .18	--	0.0	78 1.28	--	1.7 .05	--	0.0	--	--	69 5	
F61154.50 02/16/66 5000 5050 1135		12.4 104	45 F	8.2 7.5	184	--	--	5.0 .22	--	0.0	93 1.53	--	1.4 .04	--	0.0	--	--	84 8	
F61154.50 03/15/66 5000 5050 1455		11.2 102	52 F	8.1 7.6	142	--	--	3.9 .17	--	0.0	75 1.23	--	1.2 .03	--	0.0	--	--	65 4	
F61154.50 04/13/66 5000 5050 1015		11.4 113	59 F	8.1 7.7	137	--	--	3.8 .17	--	0.0	73 1.20	--	0.7 .02	--	0.1	--	--	63 3	
F61154.50 05/17/66 5000 5050 0735	1250	9.4 97	60 F	8.2 7.6	177	26 1.30 70	4.4 .36 19	4.0 .17 9	1.0 .03 2	0.0	94 1.54 85	11 .23 13	1.2 .03 2	0.5 .01 1	--	0.0	8.1	110 102	83 6
F61154.50 06/13/66 5000 5050 1730	319	9.8 113	83 F	8.2 7.9	258	--	--	6.4 .28	--	0.0	138 2.26	--	3.0 .08	--	0.1	--	--	121 8	
F61154.50 07/19/66 5000 5050 1700	98	9.4 108	72.5 F 8.1	8.5 8.1	315	--	--	6.5 .24	--	6.0 .20	157 2.57	--	3.9 .11	--	0.1	--	--	155 17	
F61154.50 08/17/66 5000 5050 0925	35	8.2 93	71 F	8.4 7.8	349	--	--	8.0 .35	--	2.0 .07	181 2.97	--	5.1 .14	--	0.0	--	--	170 18	
F61154.50 09/14/66 5000 5050	34	9.1 100	68 F	7.9 7.9	366	48 2.40	13 1.07	8.5 .37	1.6 .04	0.0	191 3.13	33 .69	5.0 .14	1.3 .02	0.1	9.0	206 213	174 18	

## MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	LAR SAMPLER	G.M. Q	DO SAT	TEMP	PH LAR FLD	EC LAR FLD	MILLIGRAMS PER LITER										TDS SUM	TH NCH			
							MINERAL CONSTITUENTS IN			PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER					F	B	SI02
							CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	NO3					
MIDDLE FORK EEL RIVER AT DOS RIOS (5c)																					
F63010.00 10/14/65 5000 5050 1100		7.62 29	9.7 103	63 F	8.5 7.9	429	--	--	12 .52	--	8.0 .27	151 2.48	--	59 1.66	0.2	--	0.1	--	--	198 61	
F63010.00 11/11/65 5000 5050 0935		7.98 88	10.4 101	55 F	8.5 8.0	437	--	--	12 .52	--	7.0 .23	151 2.48	--	18 .51	1.5 .02	--	0.3	--	--	205 70	
F63010.00 12/08/65 5000 5050 1600		9.84 950	12.1 101	44 F	8.2 7.6	170	--	--	3.9 .17	--	0.0	77 1.26	--	2.0 .06	0.3	--	0.0	--	--	78 15	
F63010.00 01/13/66 5000 5050 0930		4550	12.6 101	41 F	8.2 7.7	163	--	--	4.9 .21	--	0.0	81 1.33	--	1.2 .03	0.6 .01	--	0.0	--	--	74 8	
F63010.00 02/17/66 5000 5050 1115		2020	13.3 106	40 F	8.3 7.7	198	--	--	4.6 .20	--	1.0 .03	94 1.54	--	1.2 .03	0.3	--	0.0	--	--	90 12	
F63010.00 03/16/66 5000 5050 1235		8020	12.4 106	45 F	8.1 7.6	141	--	--	3.5 .15	--	0.0	72 1.18	--	1.0 .03	0.8 .01	--	0.0	--	--	64 5	
F63010.00 04/12/66 5000 5050 1045		4500	12.0 104	46 F	8.2 7.7	121	--	--	3.0 .13	--	0.0	64 1.05	--	0.5 .01	0.8 .01	--	0.0	--	--	56 4	
F63010.00 05/16/66 5000 5050 1210		780	9.6 97	59 F	8.2 7.6	133	17 .85 63	4.5 .37 27	2.8 .12 9	0.7 .02 1	0.0	69 1.13 82	9.0 .19 14	1.3 .04 3	0.4 .01 1	0.1	0.0	7.3	85 77	61 5	
F63010.00 06/13/66 5000 5050 1130		190	8.7 102	72 F	8.4 8.0	219	--	--	6.1 .27	--	2.0 .07	106 1.74	--	2.9 .08	--	--	0.1	--	--	102 12	
F63010.00 07/20/66 5000 5050 0945		430	8.9 103	71 F	8.5 8.1	310	--	--	7.6 .33	--	5.0 .17	129 2.12	--	7.0 .20	0.7 .01	--	0.1	--	--	148 34	
F63010.00 08/17/66 5000 5050 1405		18	9.8 115	83 F	8.5 8.4	345	--	--	9.4 .41	--	5.0 .17	125 2.05	--	11 .31	0.7 .01	--	0.0	--	--	160 49	
F63010.00 09/14/66 5000 5050 1525		17	10.1 120	73 F	8.5 8.4	364	45 2.25 59	13 1.07 28	10 .44 12	1.6 .04 1	4.0 .13 3	114 1.87 49	65 1.35 35	16 .45 12	0.8 .01	--	0.0	11	230 222	166 66	

TABLE 0-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. Q	DO SAT	TEMP F	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SI02	TDS SUM	TH NCH	
F63120.00 10/14/65 0900		8.8 95	63 F	8.5 8.0	488	--	--	19 .83	--	--	7.0 .23	147 2.41	--	40 1.13	0.1	--	0.4	--	--	206 74
F63120.00 11/11/65 1050		10.2 102	56 F	8.5 8.0	411	--	--	17 .74	--	--	5.0 .17	130 2.13	--	25 .71	1.7 .03	--	0.3	--	--	174 59
F63120.00 12/08/65 1355		12.1 103	44 F	8.2 7.5	130	--	--	3.4 .15	--	--	0.0	62 1.02	--	2.1 .06	0.2	--	0.0	--	--	58 7
F63120.00 01/13/66 1140		12.3 101	41 F	8.2 7.6	123	--	--	3.4 .15	--	--	0.0	62 1.02	--	1.4 .04	0.4 .01	--	0.0	--	--	55 4
F63120.00 02/17/66 1010		14.0 112	39 F	8.2 7.4	143	--	--	3.6 .16	--	--	0.0	70 1.15	--	1.5 .04	0.1	--	0.0	--	--	64 7
F63120.00 03/16/66 1515		12.2 103	43 F	8.1 7.4	107	--	--	2.4 .10	--	--	0.0	55 .90	--	0.9 .03	1.0 .02	--	0.0	--	--	48 3
F63120.00 04/12/66 1310		11.6 102	46 F	8.0 7.3	87	--	--	2.0 .09	--	--	0.0	45 .74	--	0.4 .01	0.4 .01	--	0.0	--	--	40 3
F63120.00 05/16/66 1345	448	9.9 99	56 F	8.0 7.3	90	14 .70	1.3 .11	2.1 .09	0.8 .02	0.0 2	0.0	45 .80	7.0 .15	1.2 .03	0.8 .01	--	0.0	5.8	62 55	40 3
F63120.00 06/13/66 1330	48	8.5 113	82 F	8.2 8.0	160	--	--	4.1 .18	--	--	0.0	76 1.25	--	3.5 .10	--	--	0.0	--	--	71 9
F63120.00 07/20/66 0710	13	9.0 98	63.5 F	8.5 8.1	291	--	--	9.5 .41	--	--	3.0 .10	118 1.94	--	14 .39	0.3	--	0.1	--	--	127 25
F63120.00 08/17/66 1520	10	6.2 80	79 F	8.3 7.9	373	--	--	13 .57	--	--	2.0 .07	134 2.20	--	25 .71	0.7 .01	--	0.1	--	--	162 49
F63120.00 09/14/66 5000	8.0	9.8 115	70 F	8.4 8.5	417	51 2.54	10 .82	17 .74	1.8 .05	5.0 .17	5.0 .17	126 2.07	49 1.02	34 .96	0.5 .01	--	0.2	8.3	278 239	168 56



## MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. Q	00 SAT	TEMP F	PH LAB FLD	EC LAB FLD	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER		TDS SUM	TH NCH
						CA	MG	NA	K	CO3	HCO3	504	CL	NO3	F	B	SI02		
F61100.00 10/12/65 5000 5050	8.83 132	11.3 119	65 F	8.5 8.1	352	--	--	10 .44	--	5.0 .17	189 3.10	--	6.8 .19	--	--	0.1	--	--	168 5
F61100.00 11/09/65 5000 5050	9.56 446	9.7 96	59 F	8.6 7.9	369	--	--	10 .44	--	7.0 .23	187 3.07	--	8.0 .23	--	--	0.1	--	--	180 15
F61100.00 12/07/65 5000 5050	11.69 3130	11.8 105	51 F	8.4 8.1	284	--	--	8.1 .35	--	3.0 .10	124 2.03	--	7.1 .20	--	--	0.0	--	--	130 24
F61100.00 01/11/66 5000 1645	16.20 18300	11.5 96	46 F	8.2 7.6	154	--	--	5.0 .22	--	0.0	76 1.25	--	1.7 .05	--	--	0.0	--	--	67 5
F61100.00 02/15/66 5000 5050	13.38 6680	11.8 98	45 F	8.3 7.6	180	--	--	5.3 .23	--	1.0 .03	89 1.46	--	1.8 .05	--	--	0.0	--	--	79 5
F61100.00 03/15/66 5000 1530	16.00 16900	10.9 100	53 F	8.0 7.6	146	--	--	4.5 .20	--	0.0	74 1.21	--	1.6 .05	--	--	0.0	--	--	64 4
F61100.00 04/13/66 5000 1115	15.25 12500	10.8 106	59 F	7.8 7.7	144	22 1.10 73	2.2 .18 12	4.2 .18 12	1.7 .04 3	0.0	73 1.20 82	10 .21 14	1.4 .04 3	0.7 .01 1	0.0	0.0	9.3	-- 87	64 4
F61100.00 05/17/66 5000 0840	11.75 1500	10.0 103	63 F	8.2 7.9	220	28 1.40 61	7.8 .64 28	5.5 .24 10	1.1 .03 1	0.0	118 1.94 82	15 .31 13	3.8 .11 5	0.1	0.2	0.1	9.5	130 129	102 5
F61100.00 06/14/66 5000 0645	11.69 680	9.8 120	79 F	8.3 8.0	276	38 1.90 65	8.5 .70 24	7.0 .30 10	1.3 .03 1	2.0 .07	148 2.43 81	19 .40 13	3.4 .10 3	0.8 .01	0.3	0.0	9.0	-- 162	130 5
F61100.00 07/19/66 5000 1600	9.64 231	9.7 106	68 F	8.2 8.1	326	43 2.15 61	12 .99 28	8.3 .36 10	1.5 .04 1	0.0	181 2.97 84	20 .42 12	4.9 .14 4	0.7 .01	0.2	0.0	9.4	-- 189	156 8
F61100.00 08/16/66 5000 1435	9.35 125	10.3 123	77 F	8.5 8.4	343	44 2.20 59	13 1.07 29	9.8 .43 11	1.7 .04 1	5.0 .17	181 2.97 78	23 .48 13	5.7 .16 4	1.0 .02	0.1	0.1	10	-- 202	164 7
F61100.00 09/13/66 5000 1550	9.26 107	13.8	71 F	8.4 8.4	303	32 1.60 51	13 1.07 34	10 .44 14	1.7 .04 1	6.0 .20	147 2.41 73	23 .48 15	6.7 .19 6	1.1 .02	0.2	0.1	11	171 177	134 4

EEL RIVER AT SCOTIA (6)

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. Q	D.O. SAT	TEMP	PH LAB FLD	EC LAB FLD	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER IDS SUM	TH NCH		
						CA	MG	NA	K	CO3	MC03	SO4	CL	NO3	F			B	SI02
F64100.00 10/13/65 1400	2.81 50	10.4 111	65 F	8.6 8.1	339	--	--	10 .44	--	8.0 2.27	181 2.97	--	7.0 .20	2.1 .03	--	0.1	--	--	162 0
F64100.00 11/10/65 1235	3.53 220	10.1 98	57 F	8.5 7.8	298	--	--	9.6 .42	--	4.0 .13	147 2.41	--	6.5 .18	2.0 .03	--	0.1	--	--	144 17
F64100.00 12/08/65 1020	3.95 380	11.1 103	53 F	8.3 7.6	222	--	--	7.8 .34	--	1.0 .03	110 1.80	--	4.7 .13	0.6 .01	--	0.0	--	--	98 7
F64100.00 01/12/66 1120	6.94 3890	11.6 99	47 F	8.1 7.4	130	--	--	5.3 .23	--	0.0	66 1.08	--	2.6 .07	0.5 .01	--	0.0	--	--	54 0
F64100.00 02/16/66 1215	5.23 1310	12.3 107	48 F	8.2 7.4	152	--	--	5.9 .26	--	0.0	77 1.26	--	2.6 .07	0.3	--	0.0	--	--	64 1
F64100.00 03/16/66 0940	7.41 4740	11.3 98	48 F	7.8 7.2	124	--	--	5.2 .23	--	0.0	62 1.02	--	2.2 .06	1.1 .02	--	0.0	--	--	50 0
F64100.00 04/13/66 0850	6.11 2500	10.9 98	51 F	7.9 7.3	131	--	--	5.3 .23	--	0.0	67 1.10	--	1.2 .03	0.4 .01	--	0.0	--	--	55 0
F64100.00 05/17/66 0655	4.53 465	9.3 95	61 F	8.2 7.9	211	26 1.30 58	7.1 .58 26	7.5 .33 15	1.4 .04 2	0.0	113 1.85 84	10 .21 10	4.5 .13 6	0.2	0.1	13	147 125	94 2	
F64100.00 06/13/66 1650	220	9.8 126	83 F	8.3 8.1	234	--	--	8.2 .36	--	2.0 .07	125 2.05	--	3.8 .11	--	--	0.0	--	--	106 0
F64100.00 07/19/66 1800	80	9.5 110	73 F	8.5 8.3	273	--	--	9.1 .40	--	4.0 .13	144 2.36	--	5.0 .14	0.6 .01	--	0.0	--	--	126 2
F64100.00 08/17/66 1010	43	7.9 93	75 F	8.2 8.1	286	--	--	10 .44	--	0.0	159 2.61	--	6.0 .17	0.8 .01	--	0.0	--	--	129 0
F64100.00 09/14/66	1.44	11.5 120	70 F	8.0 8.2	304	36 1.22 88	12 .88 44	10 .44	1.6 .24	0.0	167 2.74	17 25	6.4 .19	0.4 .01	--	0.1	8.2	175 174	140 3



## MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. 0	00 SAT	TEMP	PH LAR FLD	EC LAB FLD	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER TDS SUM	TH NCH		
						CA	MG	NA	K	CO3	HCO3	504	CL	NO3	F			B	SI02
F31470.00 10/05/65 1020		9.3 96	59 F	8.4 7.7	292	--	--	26 1.13	--	4.0 .13	101 1.66	--	6.3 .18	3.7 .06	--	0.1	--	--	84 0
F31470.00 11/02/65 1030		10.0 97	53 F	8.0 7.5	212	--	--	19 .78	--	0.0	98 1.61	--	4.5 .13	5.7 .09	--	0.1	--	--	66 0
F31470.00 11/30/65 1055		11.2 98	45 F	8.2 7.3	199	--	--	17 .74	--	0.0	89 1.46	--	4.4 .12	6.7 .11	--	0.0	--	--	62 0
F31470.00 01/04/66 1130		12.5 97	37 F	7.6 7.6	232	--	--	19 .78	--	0.0	109 1.79	--	5.4 .15	5.3 .09	--	0.1	--	--	75 0
F31470.00 02/08/66 1040		12.9 102	38 F	8.1 7.6	224	--	--	17 .74	--	0.0	114 1.87	--	6.4 .18	4.7 .08	--	0.1	--	--	75 0
F31470.00 03/09/66 1155		11.7 100	44 F	8.1 7.8	287	--	--	22 .96	--	0.0	119 1.95	--	5.5 .16	3.7 .06	--	0.1	--	--	98 1
F31470.00 04/04/66 1410		11.3 109	53 F	8.4 7.0	260	--	--	17 .74	--	2.0 .07	108 1.77	--	4.9 .14	2.4 .04	--	0.2	--	--	95 3
F31470.00 05/02/66 1435		11.5 121	60 F	8.2 8.4	227	18 .90 38	9.0 .66 28	18 .74 33	2.3 .06 3	0.0	116 1.90 79	18 .37 15	4.4 .12 5	0.5 .01	--	0.1	19 150 145	78 0	
F31470.00 06/08/66 1010		9.6 104	63 F	8.5 8.2	269	--	--	28 1.22	--	3.0 .10	144 2.36	--	5.9 .17	0.7 .01	--	0.1	--	--	81 0
F31470.00 07/12/66 0825		9.0 102	67 F	7.9 8.0	269	--	--	28 1.22	--	0.0	143 2.35	--	6.0 .17	1.5 .02	--	0.0	--	--	79 0
F31470.00 09/12/66 1100			62 F	7.5 8.2	260	15 .75 27	9.8 .81 29	26 1.13 41	3.3 .08 3	0.0	111 1.82 67	31 .64 23	7.0 .20 7	4.2 .07 3	--	0.1	26 178 177	78 0	

KLAMATH RIVER ABOVE HAMBURG RESERVOIR SITE (1c)

TABLE O-2 (Continued)  
**MINERAL ANALYSES OF SURFACE WATER**

STATION NUMBER DATE TIME	G.P.H. Q	DO SAT	TEMP F	PH LAB FLD	EC LAB FLD	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER			
						CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	F	B	SI02	TDS SUM	TH NCH
KLAMATH RIVER BELOW IRON GATE DAM (LF)																			
F31600.00 10/05/65 0845	4.65 2530	6.4 69	59 F	8.6 7.3	280	--	--	26 1.13	--	8.0 .27	83 1.36	--	5.5 .16	3.7 .06	--	0.0	--	--	77 0
F31600.00 11/02/65 0910	5.12 3010	7.4 74	54 F	7.7 7.2	187	--	--	16 .70	--	0.0	78 1.28	--	3.2 .09	6.4 .10	--	0.1	--	--	56 0
F31600.00 11/30/65 0930	5.79 4380	11.0 98	45 F	8.0 7.2	181	--	--	16 .70	--	0.0	76 1.25	--	2.9 .08	7.3 .12	--	0.0	--	--	52 0
F31600.00 01/04/66 0930	3360	12.1 96	37 F	7.7 7.4	197	--	--	18 .78	--	0.0	94 1.54	--	3.0 .08	5.5 .09	--	0.0	--	--	57 0
F31600.00 02/08/66 0915	1650	11.5 93	38 F	7.7 7.2	168	--	--	14 .61	--	0.0	78 1.28	--	3.6 .10	5.8 .09	--	0.1	--	--	50 0
F31600.00 03/09/66 1035	1610	11.1 95	42 F	8.1 7.2	275	--	--	24 1.13	--	0.0	93 1.53	--	4.5 .13	4.8 .08	--	0.0	--	--	82 6
F31600.00 04/04/66 1245	1830	10.9 109	54 F	8.3 7.7	282	--	--	22 .96	--	1.0 .03	102 1.67	--	5.5 .16	2.8 .05	--	0.1	--	--	92 7
F31600.00 05/02/66 1300	1060	12.3 130	59 F	7.9 8.4	219	14 .70 30	6.6 .54 23	23 1.00 43	2.5 .06 3	0.0	104 1.71 74	23 .48 21	3.3 .09 4	1.6 .03 1	--	0.0	21	152 146	62 0
F31600.00 06/08/66 0825	694	11.2 123	62 F	8.5 8.3	278	--	--	36 1.57	--	4.0 .13	144 2.36	--	5.0 .14	1.1 .02	--	0.1	--	--	66 0
F31600.00 07/12/66 0700	743	10.4 115	63 F	8.2 7.8	271	--	--	30 1.31	--	0.0	135 2.21	--	4.7 .13	1.9 .03	--	0.0	--	--	73 0
F31600.00 08/08/66 0915	1050	9.6 116	71 F	8.3 8.2	365	--	--	39 1.70	--	2.0 .07	132 2.16	--	7.5 .21	1.6 .03	--	0.0	--	--	99 0
F31600.00 09/12/66	1300	8.9 101	65 F	8.0 7.8	240	14 .70	8.3 .68	24 1.04	3.2 .08	0.0	94 1.54	30 .62	4.5 .13	5.0 .08	--	0.0	27	174 162	69 0

## MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	LAG SAMPLER	G.M. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN							MILLIGRAMS PER LITER				TDS SUM	TH NCH
							CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B		
F31100.00 10/12/65 1240	5000 5050	4.21 4320	10.6 113	66 F 7.9	8.4 7.9	270	--	--	18 .79	--	5.0 .17	110 1.80	--	5.4 .15	--	0.0	--	--	95 0
F31100.00 11/09/65 0930	5000 5050	7500	10.0 94	55 F 7.6	8.2 7.6	204	--	--	11 .48	--	0.0	100 1.64	--	3.4 .10	--	0.1	--	--	78 0
F31100.00 12/07/65 0840	5000 5050	13000	11.7 101	48 F 7.4	8.2 7.4	166	--	--	7.4 .32	--	0.0	81 1.33	--	3.0 .08	--	0.0	--	--	69 3
F31100.00 01/11/66 1000	5000 5050	31400	12.0 98	44 F 7.4	8.1 7.4	161	--	--	4.2 .18	--	0.0	83 1.36	--	2.0 .06	--	0.0	--	--	73 5
F31100.00 02/15/66 0950	5000 5050	13800	13.0 106	44 F 7.5	8.2 7.5	167	--	--	5.0 .22	--	0.0	88 1.44	--	1.8 .05	--	0.0	--	--	75 3
F31100.00 03/14/66 1650	5000 5050	36500	11.5 100	49 F 7.2	8.1 7.2	130	--	--	3.6 .16	--	0.0	70 1.15	--	1.1 .03	--	0.0	--	--	60 3
F31100.00 04/14/66 1145	5000 5050	29000	11.3 106	55 F 7.6	7.9 7.6	128	13 .65	5.5 .45	4.3 .19	0.9 .02	0.0	64 1.05	8.0 .17	1.2 .03	0.6 .01	0.0	0.0	13 78	55 3
F31100.00 05/18/66 0900	5000 5050	14900	9.9 99	60 F 7.7	8.1 7.7	125	12 .60	6.1 .50	3.9 .17	0.8 .02	0.0	68 1.12	6.0 .12	1.4 .04	0.4 .01	0.1	0.0	12 76	55 0
F31100.00 06/11/66 1505	5000 5050	7620	8.8 112	83 F 7.7	8.0 7.7	154	17 .85	5.7 .47	5.7 .25	1.0 .03	0.0	86 1.41	8.0 .17	1.6 .05	0.8 .01	0.2	0.0	13 95	66 0
F31100.00 07/18/66 1710	5000 5050	3540	9.3 103	69 F 8.1	8.2 8.1	205	22 1.10	8.0 .66	8.3 .36	1.5 .04	0.0	112 1.84	12 .25	3.2 .09	0.8 .01	0.2	0.0	15 126	88 0
F31100.00 08/16/66 0945	5000 5050	2570	8.4 95	72 F 8.2	8.2 8.2	274	24 1.20	10 .82	18 .78	2.4 .06	0.0	129 2.12	31 .64	5.0 .14	0.8 .01	0.1	0.0	15 170	103 0
F31100.00 09/13/66 1020	5000 5050	2560	10.1	64 F 8.2	8.1	246	22 1.10	9.6 .79	15 .65	2.2 .06	0.0	121 1.98	23 .48	4.9 .14	1.1 .02	0.2	0.0	18 155	94 0

KLAMATH RIVER NEAR KLAMATH (3)

TABLE 0-2 (Continued)

## MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. °	DO SAT	TEMP F	PH L.A.R. FLD	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO <sub>3</sub>	HCO <sub>3</sub>	SO <sub>4</sub>	CL	NH <sub>3</sub>	F	B	SI0 <sub>2</sub>	TDS SUM
F31220.01 10/11/65 1345	3300	10.0 103	61 F	8.4 7.8	275	--	--	22 .96	--	3.0 .10	1.08 1.77	--	5.5 .16	--	0.0	--	--	88 0
F31220.01 11/08/65 1230	6270	10.9 104	55 F	7.9 7.6	195	--	--	13 .57	--	0.0	.92 1.51	--	3.7 .10	--	0.1	--	--	68 0
F31220.01 12/06/65 1200	9160	12.3 108	48 F	8.1 7.4	165	--	--	11 .48	--	0.0	.79 1.30	--	3.0 .08	--	0.0	--	--	60 0
F31220.01 01/10/66 1300	24500	13.1 106	42 F	8.0 7.4	148	--	--	6.1 .27	--	0.0	.77 1.26	--	2.0 .06	--	0.0	--	--	61 0
F31220.01 02/14/66 1320	8500	13.5 108	41 F	8.3 7.4	171	--	--	7.8 .34	--	2.0 .07	.88 1.44	--	2.3 .06	--	0.0	--	--	71 0
F31220.01 03/25/66 1240	16700	12.6 113	50 F	8.0 7.3	157	--	--	6.7 .29	--	0.0	.82 1.34	--	1.9 .05	--	0.0	--	--	68 1
F31220.01 04/15/66 1115	27200	11.8 108	51 F	8.2 7.4	143	--	--	6.2 .27	--	0.0	.68 1.12	--	1.0 .03	--	0.0	--	--	58 2
F31220.01 05/19/66 0945	9750	10.1 99	57 F	7.7 7.0	122	11 .55 43	6.0 .49 39	4.9 .21 17	0.8 .02 2	0.0	.68 1.12 88	5.0 .10 8	1.9 .05 4	0.6 .01 1	0.0	0.0	12 78 76	52 0
F31220.01 06/15/66 1025	5190	9.6 106	67 F	8.2 7.5	146	--	--	7.3 .32	--	0.0	.80 1.31	--	2.5 .07	--	0.0	--	--	58 0
F31220.01 07/18/66 1310	2400	9.2 102	68 F	8.5 7.8	207	--	--	12 .52	--	3.0 .10	.110 1.80	--	4.0 .11	--	0.0	--	--	82 0
F31220.01 08/15/66 1125	1850	9.2 104	73 F	8.2 8.2	297	--	--	24 1.04	--	0.0	.130 2.13	--	6.0 .17	--	0.0	--	--	98 0

KIAMATH RIVER AT ORLEANS (2c)

## MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. 0	OO SAT	TEMP	PH LAR FLD	EC LAR FLD	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TOS SUM			
						CA	MG	NA	K	CO3	HC03	SO4	CL	N03	F	B	SI02	TOS SUM	TH NCH
F31430.00 10/05/65 1115	2750	9.7 103	61 F	8.2 7.9	304	--	--	26 1.13	--	0.0	117 1.92	--	6.7 .19	3.1 .05	--	0.1	--	--	90 0
F31430.00 11/02/65 1130	3650	10.3 101	54 F	8.1 7.7	216	--	--	18 .78	--	0.0	100 1.64	--	4.0 .11	5.5 .09	--	0.1	--	--	71 0
F31430.00 11/30/65 1145	5050	11.5 100	45 F	7.6 7.4	201	--	--	16 .70	--	0.0	95 1.56	--	4.1 .12	6.4 .10	--	0.0	--	--	66 0
F31430.00 01/04/66 1230	5050	12.9 99	36 F	8.1 7.6	209	--	--	14 .61	--	0.0	100 1.64	--	5.0 .14	3.9 .06	--	0.1	--	--	70 0
F31430.00 02/08/66 1120	3250	12.8 104	40 F	8.1 7.7	220	--	--	13 .57	--	0.0	117 1.92	--	5.1 .14	3.4 .05	--	0.1	--	--	84 0
F31430.00 03/03/66 1230	4200	13.2 115	45 F	8.2 7.5	225	--	--	13 .57	--	0.0	110 1.80	--	3.1 .09	2.3 .04	--	0.0	--	--	88 0
F31430.00 04/04/66 1445	6200	11.0 106	53 F	8.3 7.7	188	--	--	8.7 .38	--	1.0 .03	89 1.46	--	2.9 .08	1.4 .02	--	0.1	--	--	78 4
F31430.00 05/02/66 1515	3540	10.7 111	59 F	8.0 8.2	176	15 .75 40	7.9 .65 35	9.8 .43 23	1.3 .03 2	0.0	94 1.54 84	10 .21 11	2.4 .07 4	1.0 .02 1	--	0.0	16	110 109	70 0
F31430.00 06/08/66 1045	2160	10.1 110	63 F	8.2 8.2	218	--	--	15 .65	--	0.0	123 2.02	--	3.9 .11	0.5 .01	--	0.1	--	--	79 0
F31430.00 07/12/66 0900	1160	8.8 101	68 F	8.4 8.2	254	--	--	21 .91	--	4.0 .13	132 2.16	--	5.4 .15	1.1 .02	--	0.0	--	--	87 0
F31430.00 09/12/66 1140	1480	10.0 107	62 F	7.9 8.2	261	15 .75 28	10 .82 30	24 1.04 39	3.0 .08 3	0.0	107 1.68	29 .60 23	6.0 .17 7	3.4 .05 2	--	0.0	26	173 169	78 0

KIAMATH RIVER NEAR SEIAD VALLEY (2b)

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	LAR SAMPLER	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN							MILLIGRAMS PER LITER							MILLIGRAMS PER LITER TOS SUM
							CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SI02	TH		
F51100.00 10/11/65 1740	5000 5050	3.71 5A	10.0 103	63 F 8.0	8.5 8.0	246	--	--	5.6 .24	--	3.0 .10	133 2.18	--	2.4 .07	--	0.1	--	--	118 4		
F51100.00 11/08/65 1525	5000 5050	4.32 109	10.6 109	58 F 8.0	8.5 8.0	242	--	--	5.0 .22	--	4.0 .13	122 2.00	--	2.5 .07	--	0.1	--	--	116 10		
F51100.00 12/06/65 1435	5000 5050	6.76 1120	11.3 104	53 F 7.5	7.9 7.5	134	--	--	3.6 .16	--	0.0	64 1.05	--	2.1 .06	--	0.0	--	--	58 6		
F51100.00 01/10/66 1620	5000 5050	9.74 4200	12.8 100	41 F 7.6	8.1 7.6	111	--	--	3.1 .13	--	0.0	56 .92	--	1.4 .04	--	0.0	--	--	48 2		
F51100.00 02/14/66 1550	5000 5050	7.59 1710	12.6 106	46 F 7.4	8.0 7.4	121	--	--	3.3 .14	--	0.0	60 .98	--	1.2 .03	--	0.0	--	--	54 5		
F51100.00 03/14/66 1210	5000 5050	94.64 3820	11.7 101	48 F 7.2	8.0 7.2	105	--	--	3.0 .13	--	0.0	54 .89	--	1.4 .04	--	0.0	--	--	47 3		
F51100.00 04/14/66 0900	5000 5050	8.16 2250	11.4 102	51 F 7.3	7.7 7.3	108	--	--	3.3 .14	--	0.0	53 .87	--	1.0 .03	--	0.0	--	--	47 4		
F51100.00 05/18/66 0720	5000 5050	5.00 195	9.7 93	57 F 7.7	8.0 7.7	170	24 1.20 68	4.4 .36 20	3.8 .17 10	1.0 .03 2	0.0	90 1.48 82	12 .25 14	2.0 .06 3	0.4 .01 1	0.1	6.7	101 99	78 4		
F51100.00 06/15/66 0620	5000 5050	4.46 132	9.0 93	63 F 7.7	8.2 7.7	209	--	--	4.7 .20	--	0.0	116 1.90	--	2.0 .06	--	0.0	--	--	100 5		
F51100.00 07/18/66 1530	5000 5050	3.88 54	9.3 107	73 F 8.1	8.5 8.1	231	--	--	5.5 .24	--	2.0 .07	122 2.00	--	2.8 .08	--	0.0	--	--	110 7		
F51100.00 08/15/66 1435	5000 5050	1.29 65	9.5 108	72 F 8.3	8.2 8.3	228	--	--	5.2 .23	--	0.0	125 2.05	--	2.1 .06	--	0.0	--	--	108 6		
F51100.00 09/12/66	5000	1.29 70	9.9 106	66 F 8.1	8.0 8.1	229	35 1.75	5.7 .47	4.6 .20	1.1 .03	0.0	126 2.07	15 .31	2.1 .06	1.0 .02	0.0	9.4	133 136	111 8		

MAD RIVER NEAR ARGADA (6a.)



TABLE D-2 (Continued)

## MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. Q	DD SAT	TEMP F	PH LAB FLD	EC LAB FLD	MILLIGRAMS PER LITER										TOS SUM	TH NCH		
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F			H	SI02
F71100.00 10/13/65 5000 5050 1045	4.22 34	10.8 113	64 F	8.5 8.0	287	--	--	8.8 .38	--	--	3.0 .10	133 2.18	--	4.4 .12	--	0.1	--	--	130 16
F71100.00 11/09/65 5000 5050 1325	4.73 178	11.3 107	56 F	8.4 8.0	261	--	--	8.3 .36	--	--	1.0 .03	105 1.72	--	4.0 .11	--	0.1	--	--	116 29
F71100.00 12/07/65 5000 5050 1255	6.11 833	11.1 98	50 F	8.1 7.4	165	--	--	6.9 .30	--	--	0.0	69 1.13	--	4.0 .11	--	0.0	--	--	66 10
F71100.00 01/11/66 5000 5050 1430	3.80 10	11.2 90	43 F	8.0 7.3	119	--	--	5.2 .23	--	--	0.0	52 .85	--	2.8 .08	--	0.0	--	--	45 3
F71100.00 02/15/66 5000 5050 1355	5.83 890	11.5 100	49 F	8.0 7.3	140	--	--	5.7 .25	--	--	0.0	61 1.00	--	2.1 .06	--	0.0	--	--	55 5
F71100.00 03/15/66 5000 5050 1230	8.26 3860	11.3 102	52 F	7.8 7.2	109	--	--	4.7 .20	--	--	0.0	48 .79	--	2.4 .07	--	0.0	--	--	43 4
F71100.00 04/13/66 5000 5050 1430	5.51 562	10.8 100	54 F	8.2 7.4	130	--	--	5.3 .23	--	--	0.0	59 .97	--	1.5 .04	--	0.1	--	--	52 4
F71100.00 05/17/66 5000 5050 1300	4.91 174	9.4 101	67 F	8.2 7.7	194	26 1.30 64	4.6 .38 19	6.9 .30 15	1.4 .04 2	0.0	93	1.53 77 18	17 .35 6	3.9 .11	0.1	0.2	0.0	11 124 117	84 8
F71100.00 06/14/66 5000 5050 1105	4.59 104	8.9 93	64 F	8.2 7.8	226	--	--	7.5 .33	--	--	0.0	111 1.82	--	3.0 .08	--	0.0	--	--	100 9
F71100.00 07/19/66 5000 5050 1210	4.46 72	9.4 107	72 F	8.4 8.1	258	--	--	8.2 .36	--	--	4.0 .13	120 1.97	--	3.4 .10	--	0.0	--	--	116 11
F71100.00 08/17/66 5000 5050 0745	4.41 38	8.3 93	71 F	8.3 7.4	274	--	--	9.0 .39	--	--	2.0 .07	130 2.13	--	4.0 .11	--	0.0	--	--	126 16
F71100.00 09/14/66 5000 5050 0935	4.38 31	10.6 117	69 F	7.8 7.8	278	40 2.00 68	6.3 .52 18	8.6 .37 13	1.4 .04 1	0.0	132	2.16 74	31 .64 22	3.6 .10 3	0.4 .01	0.1	9.0	168 165	126 18

MAYTOTE RIVER NEAR PETROLIA (7a)

TABLE 0-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	LAR SAMPLER	G.M. Q	DO SAT	TEMP F	PH LAB FLD	EC LAB FLD	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER TDS SUM	TM NCH			
							CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	F			B	SI02	
F63050.00 12/08/65 1510	5000 5050		11.4 102	48 F	8.3 7.5	209	--	--	6.4 .28	--	1.0 .03	106 1.74	--	3.5 .10	1.2 .02	--	0.0	--	--	94 6	
F63050.00 01/13/66 1230	5000 5050		11.8 100	44 F	8.2 7.4	181	--	--	5.8 .25	--	0.0	94 1.54	--	2.3 .06	1.1 .02	--	0.0	--	--	81 4	
F63050.00 02/17/66 0900	5000 5050		12.4 100	40 F	8.4 7.4	222	--	--	6.5 .28	--	3.0 .10	117 1.92	--	2.4 .07	0.9 .01	--	0.0	--	--	103 2	
F63050.00 03/16/66 1320	5000 5050		11.4 103	49 F	8.1 7.4	170	--	--	5.4 .23	--	0.0	91 1.49	--	2.0 .06	0.9 .01	--	0.0	--	--	77 3	
F63050.00 04/12/66 1125	5000 5050		10.2 99	54 F	8.2 7.6	200	--	--	6.2 .27	--	0.0	108 1.77	--	2.0 .06	0.6 .01	--	0.0	--	--	92 4	
F63050.00 05/16/66 1350	5000 5050		9.1 111	75 F	8.3 8.1	335	37 1.85 50	17 1.40 38	9.3 .40 11	1.4 .04 1	1.0 .03 1	201 3.30 88	14 .29 8	3.8 .11 3	0.9 .01	--	0.0	12	191 195	164 0	
F63050.00 06/13/66 1215	5000 5050		8.2 104	79 F	8.6 7.6	346	--	--	11 .48	--	8.0 .27	196 3.21	--	4.4 .12	--	--	0.1	--	--	166 0	
F63050.00 07/20/66	5050	No Flow																			
F63050.00 08/17/66	5050	No Flow																			
F63050.00 09/14/66	5050	No Flow																			

MILL CREEK NEAR COVELO (5e)



TABLE D-2 (Continued)

## MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MILLIGRAMS PER LITER											TDS SUM	TM NCH
						CA	MG	NA	K	CO3	HCO3	SO4	CL	N03	F	B		
OUTLET CREEK NEAR LONGVALE (5b)																		
F61350.00 10/14/65 0730	3.43 1.0	7.6 7.8	60 F	8.1 7.6	362	--	--	15 .65	--	0.0	167 2.74	--	27 .76	--	2.0	--	151 14	
F61350.00 11/11/65 0845	3.91 1.4	9.7 9.4	55 F	8.5 7.7	369	--	--	19 .83	--	7.0 .23	151 2.48	--	28 .79	--	3.0	--	148 13	
F61350.00 12/09/65 0900	4.13 45	11.3 101	49 F	8.2 7.6	194	--	--	8.7 .38	--	0.0	93 1.53	--	7.4 .21	--	0.5	--	78 2	
F61350.00 01/12/66 1440	4.48 477	11.8 101	45 F	8.0 7.3	112	--	--	4.9 .21	--	0.0	55 .90	--	3.2 .09	--	0.0	--	44 0	
F61350.00 02/11/66 1445	4.11 170	12.6 109	46 F	8.1 7.6	132	--	--	5.6 .24	--	0.0	67 1.10	--	2.6 .07	--	0.1	--	54 0	
F61350.00 03/14/66 1155	5.27 250	11.7 104	48 F	7.6 7.2	97	--	--	4.0 .17	--	0.0	46 .75	--	2.1 .06	--	0.0	--	40 3	
F61350.00 04/12/66 1000	6.58 1270	10.6 96	50 F	7.6 7.1	86	--	--	4.2 .18	--	0.0	40 .66	--	1.9 .05	--	0.1	--	35 2	
F61350.00 05/14/66 1115	3.16 25	9.3 105	68 F	7.9 8.0	212	22 1.10 50	8.3 .68 31	9.1 .40 1.8	1.6 .04 2	0.0	114 1.87 82	9.0 .19 8	7.4 .21 9	1.1 .02 1	0.5 9.3	124 124	89 0	
F61350.00 06/13/66 1030	3.87 11	9.5 113	74 F	8.5 8.1	245	--	--	11 .48	--	3.0 .10	103 1.69	--	9.8 .28	--	1.1	--	102 13	
F61350.00 07/20/66 1035	2.62 2.6	9.2 110	74 F	8.5 8.1	280	--	--	13 .57	--	5.0 .17	131 2.15	--	16 .45	0.3	1.3	--	118 2	
F61350.00 08/17/66 1320	2.47 .7	11.1 14.8	85 F	8.4 8.2	295	--	--	15 .65	--	4.0 .13	135 2.21	--	20 .56	--	1.7	--	118 1	
F61350.00 09/14/66 1455	3.63 1.0	12.2 14.6	74 F	8.1 8.4	321	30 1.50 4.6	12 .99 31	16 .70 22	1.4 .04 1	0.0	150 2.46 73	9.0 .19 6	24 .68 20	1.0 .02 1	1.8 8.1	183 177	124 1	

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER TDS SUM	TH NCH	
						CA	MG	NA	K	CO3	HCO3	SO4	CL	N03	F			B
REDWOOD CREEK AT ORICK (3b)																		
F55100.00 10/12/65 1345 5050	5.50 18	10.2 102	60 F	8.2 7.3	182	--	--	5.9 .26	--	0.0	79 1.30	--	6.8 .19	--	0.0	--	--	77 12
F55100.00 11/09/65 1025 5050	6.08 93	10.2 97	56 F	8.2 7.3	246	--	--	5.4 .23	--	0.0	96 1.57	--	5.0 .14	--	0.1	--	--	112 34
F55100.00 12/07/65 0940 5000 5050	7.19 455	11.2 101	52 F	8.1 7.3	162	--	--	4.6 .20	--	0.0	63 1.03	--	3.3 .09	--	0.0	--	--	70 19
F55100.00 01/11/66 1100 5000 5050	9.46 2500	11.5 98	47 F	7.6 7.1	88	--	--	3.1 .13	--	0.0	35 .57	--	2.8 .08	--	0.0	--	--	36 8
F55100.00 02/15/66 1030 5000 5050	8.08 1020	12.3 100	44 F	8.0 7.2	105	--	--	3.5 .15	--	0.0	44 .72	--	2.1 .06	--	0.0	--	--	43 7
F55100.00 03/14/66 1350 5000 5050	9.27 2250	11.6 104	51 F	7.4 7.2	85	--	--	3.0 .13	--	0.0	34 .56	--	2.2 .06	--	0.0	--	--	34 6
F55100.00 04/14/66 1055 5000 5050	8.31 1200	11.1 99	51 F	7.5 7.2	100	--	--	3.4 .15	--	0.0	45 .74	--	1.4 .04	--	0.0	--	--	42 5
F55100.00 05/18/66 0810 5000 5050	6.56 248	9.9 95	57 F	7.5 7.3	157	25 1.25 79	1.8 .15 9	3.8 .17 11	0.7 .02 1	0.0	68 1.12 73	0.3	3.0 .08 5	0.0	0.0	5.8	96 90	70 14
F55100.00 06/14/66 1420 5000 5050	6.28 122	8.5 107	82 F	7.9 7.3	178	--	--	4.4 .19	--	0.0	75 1.23	--	4.0 .11	--	0.0	--	--	78 17
F55100.00 07/19/66 0840 5000 5050	5.53 47	9.3 94	61 F	8.3 7.3	183	--	--	4.8 .21	--	2.0 .07	76 1.25	--	5.0 .14	--	0.0	--	--	81 15
F55100.00 08/14/66 1045 5000 5050	5.31 20	8.4 87	63 F	7.6 7.1	173	--	--	5.7 .25	--	0.0	71 1.16	--	6.0 .17	--	0.0	--	--	73 15
F55100.00 09/13/66 1120 5000 5050	5.31 22	6.2 62	60 F	7.0 7.0	179	27 1.35 73	3.2 .26 14	5.0 .22 12	0.7 .02 1	0.0	74 1.21 69	0.5 .01 1	5.0 .14 8	0.0	0.0	7.7	113 104	80 20

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. O	DO SAT	TEMP F	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIGRAMS PER LITER					
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	R	SI02	TDS SUM	TH NCH
F34100.00 05/19/66 1030	5.67 2500	11.0 102	52 F	7.6 7.4	58	9.0 .45 74	0.9 .07 11	1.5 .07 11	0.7 .02 3	0.0	32 .52 88	3.0 .06 10	0.4 .01 2	0.2	--	0.0	8.3	44 40	26 0

SALMON RIVER AT SOMESEAR (2a)

TABLE D-2 (Continued)  
**MINERAL ANALYSES OF SURFACE WATER**

STATION NUMBER DATE TIME	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER			
						CA	MG	NA	K	CO <sub>3</sub>	HCO <sub>3</sub>	SO <sub>4</sub>	CL	NH <sub>3</sub>	F	B	SI0 <sub>2</sub>
SCOTT RIVER NEAR FORT JONES (lb)																	
F25250.00 10/04/65 1545	1.91 74	11.6 129	61 F	8.7 8.2	292	--	--	5.1 .22	--	10 .33	163 2.67	--	3.4 .10	--	0.0	--	152 2
F25250.00 11/01/65 1540	1.92 75	12.7 131	55 F	8.6 8.1	288	--	--	5.3 .23	--	6.0 .20	168 2.76	--	3.6 .10	--	0.0	--	149 1
F25250.00 11/29/65 1545	2.80 214	12.0 108	44 F	8.4 7.5	236	--	--	4.0 .17	--	3.0 .10	141 2.31	--	2.4 .07	--	0.0	--	120 0
F25250.00 01/03/66 1730	3.35 330	11.7 96	38 F	8.4 7.8	212	--	--	3.7 .16	--	2.0 .07	121 1.98	--	2.6 .07	--	0.1	--	104 2
F25250.00 02/07/66 1550	3.81 469	11.4 101	45 F	8.2 7.6	216	--	--	4.7 .20	--	0.0	129 2.12	--	1.9 .05	--	0.0	--	107 1
F25250.00 03/09/66 0845	4.42 668	11.9 106	44 F	8.3 7.4	188	--	--	3.1 .13	--	1.0 .03	110 1.80	--	0.6 .02	--	0.0	--	95 4
F25250.00 04/04/66 1600	6.32 1890	10.5 104	52 F	8.3 7.4	127	--	--	2.2 .10	--	1.0 .03	73 1.20	--	0.6 .02	--	0.1	--	62 1
F25250.00 05/02/66 1635	7.19 1030	10.2 108	57 F	7.8 7.5	121	12 .60 47	6.8 .56 43	2.5 .11 9	0.7 .02 2	0.0	71 1.16 93	0.6 .06 5	0.7 .01 2	0.0	0.0	13 76 74	58 0
F25250.00 06/08/66 1215	4.21 584	9.8 111	63 F	8.0 7.6	160	--	--	4.6 .20	--	0.0	98 1.61 1	--	3.4 .10	--	0.0	--	79 0
F25250.00 07/12/66 1005	2.55 118	11.5 132	64 F	8.5 7.9	263	--	--	5.2 .23	--	5.0 .17	153 2.51	--	3.4 .10	--	0.0	--	136 2
F25250.00 08/08/66 1130	1.87 50	10.2 126	71.5F	8.1 7.8	274	--	--	5.3 .23	--	0.0	161 2.64	--	4.5 .13	--	0.0	--	138 6
F25250.00 09/12/66 5000	1.69 38	11.5 129	62 F	8.2 8.0	271	28 1.40	15 1.23	5.4 .23	0.7 .02	0.0	159 2.61	7.0 .15	5.8 .16	2.4 .04	0.0	19 160 161	132 132

## MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. 0	DO SAT	TEMP F	PH LAR FLD	EC LAR FLD	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS			
						CA	MG	NA	K	CO3	HCO3	SO4	CL	N03	F	B	SI02	SUM	TH
F21050.00 10/05/65 0745	3.31 136	9.3 95	56 F	8.7 8.2	529	--	--	38 1.65	--	19 .63	280 4.59	--	22 .62	--	--	0.5	--	--	208 0
F21050.00 11/02/65 0810	3.48 190	10.4 100	51 F	8.6 8.1	498	--	--	36 1.57	--	11 .37	274 4.49	--	21 .59	--	--	0.5	--	--	199 0
F21050.00 11/30/65 0830	3.59 264	12.3 104	42 F	8.5 8.2	520	--	--	40 1.74	--	11 .37	297 4.87	--	22 .62	--	--	0.5	--	--	216 0
F21050.00 01/04/66 0825	4.66 690	12.5 103	40 F	8.3 8.2	417	--	--	27 1.17	--	2.0 .07	225 3.69	--	16 .45	--	--	0.3	--	--	160 0
F21050.00 02/08/66 1240	3.64 250	12.4 106	42 F	8.5 8.3	526	--	--	40 1.74	--	12 .40	285 4.67	--	22 .62	--	--	0.4	--	--	210 0
F21050.00 03/09/66 1340	215	11.9 110	48 F	8.7 8.3	466	--	--	34 1.48	--	15 .50	248 4.07	--	18 .51	--	--	0.4	--	--	193 0
F21050.00 04/04/66 1155	3.17 93	12.1 125	57 F	8.7 8.2	463	--	--	30 1.31	--	17 .57	249 4.08	--	16 .45	--	--	0.4	--	--	200 0
F21050.00 05/02/66 1020	3.01 71	10.0 109	41 F	8.5 8.2	612	38 1.90 27	39 3.21 45	44 1.91 27	4.1 .10 1	13 .43 6	347 5.69 80	11 .23 3	25 .71 10	0.4 .01	--	0.5	39	388 384	256 0
F21050.00 06/08/66 0720	2.98 66	9.3 100	40 F	8.7 8.3	601	--	--	48 2.09	--	22 .73	326 5.35	--	25 .71	--	--	0.5	--	--	248 0
F21050.00 07/12/66 0605	2.51 12	9.0 92	66 F	8.7 8.1	719	--	--	56 2.44	--	24 .80	394 6.46	--	36 1.02	--	--	0.6	--	--	298 0
F21050.00 08/05/66 1015	2.45 9.0	9.4 115	72 F	8.6 8.1	726	--	--	59 2.57	--	16 .53	398 6.53	--	36 1.02	--	--	0.7	--	--	294 0
F21050.00 09/12/66 0810	2.75 32	9.5 95	54.5 F	8.6 8.4	755	44 2.20 24	48 3.95 44	63 2.74 30	5.0 .13 1	20 .67 8	420 6.89 78	11 .23 3	38 1.07 12	0.9 .01	--	0.7	49	512 485	308 0

SHASTA RIVER NEAR YREKA (1a)

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. Q	NO SAT	TEMP F	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER						MILLIGRAMS PER LITER						
						CA	MG	NA	K	CO3	HCO3	SO4	CL	N03	F	B	SI02	TDS SUM
SMITH RIVER NEAR CRESCENT CITY (3a.)																		
F01300.00 10/12/65 5050	4.26 260	10.3 101	59 F	8.4 8.1	191	--	--	3.1 .13	--	8.0 .27	93 1.53	--	2.5 .07	--	0.0	--	--	93 3
F01300.00 11/09/65 0800	6.69 1020	11.0 101	53 F	8.3 7.6	153	--	--	2.5 .11	--	1.0 .03	83 1.36	--	2.0 .06	--	0.1	--	--	77 8
F01300.00 12/06/65 1645	9.17 2680.	12.2 108	50 F	8.1 7.4	113	--	--	3.4 .15	--	0.0 1.07	65	--	1.8 .05	--	0.0	--	--	57 4
F01300.00 01/11/66 0830	13.81 9380	12.9 108	46 F	8.2 7.7	91	--	--	1.8 .08	--	0.0 .82	50	--	1.4 .04	--	0.0	--	--	42 1
F01300.00 02/15/66 0830	10.08 3570	12.4 98	42 F	8.1 7.3	99	--	--	2.1 .09	--	0.0 .90	55	--	1.1 .03	--	0.0	--	--	47 2
F01300.00 03/16/66 1510	14.65 11100	12.4 107	48 F	8.2 7.3	89	--	--	1.8 .08	--	0.0 .80	49	--	1.1 .03	--	0.0	--	--	42 2
F01300.00 04/14/66 1305	12.64 6810	11.9 101	47 F	8.2 7.6	97	--	--	1.8 .08	--	0.0 .90	55	--	1.0 .03	--	0.1	--	--	48 3
F01300.00 05/18/66 1040	8.94 1370	10.6 101	56 F	8.0 7.8	103	7.6 .38 35	7.5 .62 56	1.8 .08 7	0.7 .02 2	0.0 0.0	59 .97 89	0.5 .01 1	1.0 .03 3	--	0.0	11	60 63	50 2
F01300.00 06/14/66 1630	7.75 670	8.9 85	56 F	8.2 7.8	125	--	--	2.3 .10	--	0.0 1.16	71	--	1.6 .05	--	0.0	--	--	61 3
F01300.00 07/19/66 0645	6.91 353	9.5 98	63 F	8.2 7.7	153	--	--	1.8 .08	--	0.0 1.41	86	--	1.9 .05	--	0.0	--	--	77 7
F01300.00 08/16/66 0740	6.39 248	9.0 95	65 F	8.2 8.0	176	--	--	2.9 .13	--	0.0 1.61	98	--	2.2 .06	--	0.0	--	--	88 8
F01300.00 09/13/66 5000	6.37 243	10.4 102	59 F	8.1 8.0	178	13 .65	14 1.15	2.8 .12	0.9 .02	0.0 0.0	100 1.64	0.2 .06	2.2 .06	--	0.0	12	94 103	90 8



## MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. Q	DO SAT	TEMP	PH LAR FLO	EC LAR FLD	MILLIGRAMS PER LITER										TDS SUM	TH NCH			
						CA	MG	NA	K	CO3	HC03	504	CL	N03	F			B	SI02	
TRINITY RIVER NEAR BURNT RANCH (4b)																				
F41376.00 10/11/65 0930	300	9.6 9A	59 F	8.2 7.8	164	--	--	4.6 .20	--	0.0	86	1.41	--	5.3 .15	0.3	--	0.0	--	--	74 4
F41376.00 11/08/65 0955	675	10.8 101	52 F	8.2 7.6	154	--	--	4.0 .17	--	0.0	81	1.33	--	4.8 .14	1.0 .02	--	0.0	--	--	71 5
F41376.00 12/06/65 0920	800	11.9 104	47 F	8.2 7.3	116	--	--	3.6 .16	--	0.0	62	1.02	--	2.4 .07	0.2	--	0.0	--	--	53 2
F41376.00 01/10/66 1000	3470	11.4 94	43 F	8.2 7.5	151	--	--	3.2 .14	--	0.0	82	1.34	--	1.9 .05	0.5 .01	--	0.0	--	--	70 3
F41376.00 02/14/66 1040	1940	13.4 106	40 F	8.3 7.4	177	--	--	3.7 .16	--	1.0 .03	95	1.56	--	2.2 .06	0.2	--	0.0	--	--	84 5
F41376.00 03/25/66 1005	2750	11.8 105	48 F	8.2 7.5	152	--	--	3.5 .15	--	0.0	85	1.39	--	1.7 .05	0.4 .01	--	0.0	--	--	72 3
F41376.00 04/15/66 1300	2280	10.7 107	58 F	8.2 7.4	115	--	--	2.5 .11	--	0.0	65	1.07	--	0.9 .03	0.1	--	0.0	--	--	55 2
F41376.00 05/19/66 1320	1920	9.8 103	62 F	7.6 7.7	101	10	4.6	3.5 .15	1.0 .03	0.0	53	.87	4.0 .08	2.6 .07	1.1 .02	--	0.0	9.7	64 62	44 1
F41376.00 06/15/66 1240	1000	9.0 107	73 F	8.0 7.8	100	--	--	3.3 .14	--	0.0	53	.87	--	2.2 .06	--	--	0.0	--	--	44 1
F41376.00 07/18/66 1015	431	9.3 105	48 F	8.3 7.8	146	--	--	3.5 .15	--	2.0 .07	74	1.21	--	4.0 .11	0.7 .01	--	0.0	--	--	47 3
F41376.00 09/12/66 1005	239	9.6 102	63 F	7.7 8.1	149	17	7.8	5.0 .22	0.7 .02	0.0	88	1.44	5.0 .10	5.8 .16	1.3 .02	--	0.0	11	92 97	74 2

TABLE 0-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. LAB SAMPLER	DO SAT	TEMP F	PH LAB FLD	EC LAB FLD	MILLIGRAMS PER LITER										TDS SUM	TH NCH		
						CA	MG	NA	K	CO3	HCO3	504	CL	NO3	F			B	SI02
TRINITY RIVER NEAR HOOPA (+)																			
F41090.00 10/11/65 1525	530 5050	8.3 8A	65 F	8.4 7.0	249	--	--	4.9 .21	--	6.0 .20	127 2.08	--	4.9 .14	0.3	--	0.0	--	--	122 A
F41090.00 11/08/65 1135	922 5050	10.3 9A	55 F	8.4 7.5	227	--	--	4.7 .20	--	2.0 .07	115 1.89	--	5.2 .15	1.8 .03	--	0.0	--	--	110 12
F41090.00 12/06/65 1035	3520 5050	11.8 103	48 F	8.2 7.2	178	--	--	4.5 .20	--	0.0	92 1.51	--	2.7 .08	0.3	--	0.0	--	--	84 9
F41090.00 01/10/66 1145	23.45 17400 5050	11.9 9A	44 F	8.1 7.5	169	--	--	3.1 .13	--	0.0	88 1.44	--	1.4 .04	0.6 .01	--	0.0	--	--	81 9
F41090.00 02/14/66 1220	18.60 5760 5050	13.0 103	41 F	8.3 7.5	190	--	--	3.5 .15	--	2.0 .07	99 1.62	--	1.4 .04	0.3	--	0.0	--	--	92 8
F41090.00 03/25/66 1145	20.06 8540 5050	11.8 103	48 F	8.2 7.4	162	--	--	3.1 .13	--	0.0	91 1.49	--	1.6 .05	0.4 .01	--	0.1	--	--	85 11
F41090.00 04/15/66 1015	19.65 7720 5050	11.1 100	51 F	8.1 7.6	133	--	--	2.5 .11	--	0.0	74 1.21	--	0.6 .02	0.2	--	0.0	--	--	65 5
F41090.00 05/19/66 0830	17.77 3680 5050	9.5 96	60 F	8.2 7.6	135	15 .75 53	6.4 .53 37	2.7 .12 8	0.6 .02 1	0.0	73 1.20 82	10 .21 14	1.8 .05 3	0.6 .01 1	0.1	0.0	12	88 85	64 4
F41090.00 06/15/66 0925	16.20 1880 5050	8.7 98	70 F	8.0 7.5	159	--	--	4.1 .18	--	0.0	85 1.39	--	2.3 .06	--	--	0.0	--	--	74 5
F41090.00 07/18/66 1200	14.94 762 5050	8.6 96	69 F	8.4 7.3	210	--	--	3.4 .15	--	2.0 .07	110 1.80	--	3.2 .09	1.0 .02	--	0.0	--	--	102 9
F41090.00 08/15/66 1030	14.21 426 5050	8.6 101	74 F	8.0 7.8	230	--	--	4.6 .20	--	0.0	123 2.02	--	4.0 .11	0.6 .01	--	0.0	--	--	111 10
F41090.00 09/12/66	14.06 370 5000	9.5 102	66 F	7.7 7.6	239	29 1.45	9.9 .81	4.8 .21	0.9 .02	0.0	126 2.07	15 .31	4.6 .13	0.7 .01	--	0.0	13	130 140	113 10



## MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.M. O	DO SAT	TEMP F	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER						MILLIGRAMS PER LITER							
						CA	MG	NA	K	CO <sub>3</sub>	HCO <sub>3</sub>	SO <sub>4</sub>	CL	NO <sub>3</sub>	F	B	SiO <sub>2</sub>	TOS SUM	TH NCH
F41640.00 10/11/65 0800	3.20 212	10.5 96	48 F	7.7 7.3	92	--	--	2.4 .10	--	0.0	51 .84	--	1.1 .03	0.7 .01	--	0.0	--	--	42 0
F41640.00 11/08/65 0825	3.35 245	10.9 98	47 F	8.0 7.2	90	--	--	1.9 .08	--	0.0	50 .82	--	0.9 .03	1.9 .03	--	0.0	--	--	49 8
F41640.00 12/06/65 0800	3.17 208	11.5 101	45 F	8.1 7.2	91	--	--	3.4 .15	--	0.0	51 .84	--	0.3 .01	0.6 .01	--	0.0	--	--	43 1
F41640.00 01/10/66 0830	3.00 168	11.9 100	42 F	8.0 7.2	94	--	--	2.3 .10	--	0.0	48 .79	--	1.4 .04	0.5 .01	--	0.0	--	--	42 3
F41640.00 02/14/66 0920	3.01 170	12.1 103	43 F	8.1 7.2	101	--	--	3.2 .14	--	0.0	57 .93	--	1.0 .03	0.6 .01	--	0.0	--	--	46 0
F41640.00 03/25/66 0850	2.96 159	12.5 111	46 F	8.1 7.3	99	--	--	3.1 .13	--	0.0	56 .92	--	1.6 .05	0.6 .01	--	0.0	--	--	45 0
F41640.00 04/15/66 1500	2.99 166	11.4 110	52 F	8.0 7.8	98	--	--	3.1 .13	--	0.0	54 .89	--	0.8 .02	0.2	--	0.0	--	--	45 1
F41640.00 05/19/66 1450	4.14 631	10.6 103	53 F	7.6 7.6	94	7.2 .36	6.0 .49	2.9 .13	0.7 .02	0.0	52 .85	3.0 .06	1.4 .04	1.0 .02	--	0.0	12 60	42 60	
F41640.00 06/15/66 1400	3.01 166	10.8 109	56 F	8.0 7.7	96	--	--	3.1 .13	--	0.0	52 .85	--	1.9 .05	--	--	0.0	--	--	46 4
F41640.00 07/18/66 0845	2.97 161	11.5 119	58 F	8.0 7.4	94	--	--	2.2 .10	--	0.0	53 .87	--	1.2 .03	0.8 .01	--	0.0	--	--	43 0
F41640.00 08/15/66 0805	2.96 159	11.1 103	49.0 F	7.8 7.3	95	--	--	2.6 .11	--	0.0	53 .87	--	1.5 .04	0.8 .01	--	0.0	--	--	44 1
F41640.00 09/12/66 0830	2.97 161	11.3 105	49 F	7.5 7.5	94	5.1 .25	7.4 .61	2.6 .11	0.5 .01	0.0	52 .85	1.0 .02	1.2 .03	1.5 .02	--	0.0	16 64	43 61	

TABLE 0-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	LAR SAMPLER	G.H. Q	DO SAT	TEMP	PH FLD	EC LAR FLD	MILLIGRAMS PER LITER										TH NCH		
							CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	F		B	SI02
VAN DUZEN RIVER NEAR BRIDGEVILLE (5a)																			
F65300.00 10/13/65 0815	5000 5050	2.92 10	8.9 86	57 F	8.2 7.8	324	--	--	9.7 .42	--	0.0	158 2.59	--	4.6 .13	--	0.1	--	--	144 15
F65300.00 11/10/65 0925	5000 5050	3.53 81	10.8 99	52 F	8.5 7.9	308	--	--	6.8 .30	--	5.0 .17	140 2.30	--	2.9 .08	--	0.2	--	--	148 25
F65300.00 12/07/65 1600	5000 5050	4.70 670	11.7 102	48 F	8.2 7.5	155	--	--	5.0 .22	--	0.0	75 1.23	--	1.6 .05	--	0.0	--	--	71 10
F65300.00 01/12/66 0905	5000 5050	5.28 1220	12.8 100	40 F	8.2 7.6	139	--	--	3.4 .15	--	0.0	72 1.18	--	1.2 .03	--	0.0	--	--	62 3
F65300.00 02/16/66 1010	5000 5050	4.79 742	14.0 106	38 F	8.2 7.4	149	--	--	3.9 .17	--	0.0	75 1.23	--	0.8 .02	--	0.0	--	--	66 5
F65300.00 03/15/66 1640	5000 5050	6.41 2720	11.7 100	47 F	8.1 7.4	119	--	--	2.9 .13	--	0.0	62 1.02	--	1.1 .03	--	0.0	--	--	55 4
F65300.00 04/13/66 1200	5000 5050	5.49 1460	11.5 100	48 F	8.1 7.6	126	--	--	3.2 .14	--	0.0	66 1.08	--	0.6 .02	--	0.0	--	--	58 4
F65300.00 05/17/66 1000	5000 5050	4.03 182	10.0 96	56 F	8.1 7.6	176	25 1.25 68	4.7 .39 21	3.9 .17 9	1.0 .03 2	0.0	94 1.54 83	13 .27 15	1.2 .03 2	0.9 .01 1	--	0.0	10	110 106
F65300.00 06/14/66 0755	5000 5050	3.61 68	9.4 66	58 F	8.4 7.8	232	--	--	11 .48	--	2.0 .07	122 2.00	--	1.7 .05	--	0.0	--	--	110 7
F65300.00 07/19/66 1500	5000 5050	3.35 26	8.7 104	76.5 F	8.5 8.3	279	--	--	6.6 .29	--	4.0 .13	139 2.28	--	2.4 .07	--	0.0	--	--	134 14
F65300.00 08/16/66 1345	5000 5050	6.23 13	9.2 109	75 F	8.4 8.4	320	--	--	8.5 .37	--	3.0 .10	157 2.57	--	3.1 .09	--	0.0	--	--	152 19
F65300.00 09/13/66 1340	5000 5050	3.22 10	10.0 111	69 F	8.1 8.2	343	47 2.35	9.8 .81	9.6 .42	1.7 .04	0.0	169 2.77	39 .81	4.5 .13	0.8 .01	--	0.0	10	210 205

## MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. 0	DO SAT	TEMP	PH L&H FLD	EC L&H FLD	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER		TDS SUM	TH NCH	
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SI02			
WILLIAMS CREEK NEAR COVELO (5F)																				
F63105.00 10/14/65 0950	.2	9.7 102	60 F	8.4 8.0	371	--	--	5.0 .22	--	9.0 .30	208 3.41	--	--	1.9 .05	0.2	--	0.0	--	--	196 11
F63105.00 11/11/65 1020	.5	10.9 111	57 F	8.6 8.1	358	--	--	4.4 .21	--	8.0 .27	186 3.05	--	--	1.8 .05	1.5 .02	--	0.1	--	--	189 23
F63105.00 12/08/65 1330	2.45	11.6 103	47 F	8.2 7.5	140	--	--	2.4 .12	--	0.0	72 1.18	--	--	1.0 .03	0.2	--	0.0	--	--	65 6
F63105.00 01/13/66 1045	3.44	11.9 101	43 F	8.1 7.3	110	--	--	2.6 .11	--	0.0	56 .92	--	--	0.6 .02	0.4 .01	--	0.0	--	--	49 3
F63105.00 02/17/66 0935	3.06	13.1 105	39 F	8.2 7.4	130	--	--	3.0 .13	--	0.0	65 1.07	--	--	0.4 .01	0.2	--	0.0	--	--	59 6
F63105.00 03/16/66 1435	3.65	11.8 103	45 F	7.9 7.3	98	--	--	2.6 .11	--	0.0	49 .80	--	--	0.7 .02	0.7 .01	--	0.0	--	--	43 3
F63105.00 04/12/66 1345	3.39	10.8 100	50 F	8.1 7.4	99	--	--	2.2 .10	--	0.0	50 .82	--	--	0.3 .01	0.2	--	0.0	--	--	45 4
F63105.00 05/16/66 1330	2.62 44	8.9 100	66 F	7.9 7.4	131	15 .75 55	6.0 .49 36	2.4 .10 7	0.8 .02 1	0.0	71 1.16 85	8.0 .17 13	0.6 .02 1	0.7 .01 1	--	0.0	7.0	--	72 75	62 4
F63105.00 06/13/66 1255	2.42 20	8.2 105	79 F	8.4 8.1	142	--	--	4.3 .19	--	1.0 .03	99 1.62	--	--	0.5 .01	--	--	0.0	--	--	89 7
F63105.00 07/20/66 0820	2.24 1.4	9.3 106	67 F	8.6 8.3	260	--	--	3.5 .15	--	6.0 .20	141 2.31	--	--	0.6 .02	0.1	--	0.0	--	--	134 9
F63105.00 08/17/66 1540	2.18 .6	11.0 144	41.0 F	8.6 8.4	290	--	--	4.4 .19	--	9.0 .30	155 2.54	--	--	1.1 .03	0.9 .01	--	0.0	--	--	152 10
F63105.00 09/14/66 1715	2.16 .4	9.0 100	65 F	8.2 8.0	319	33 54	17 1.40 40	4.5 .20 4	1.3 .03 1	0.0	188 3.08 87	20 .42 12	1.0 .03 1	0.8 .01	--	0.0	9.7	--	176 184	165 11



TABLE D-3  
TRACE ELEMENT ANALYSES OF SURFACE WATER  
North Coastal Area

STATION	STATION NUMBER	DATE	CONSTITUENTS IN MICROGRAMS PER LITER																
			(Al)	(Be)	(Bi)	(Cd)	(Co)	(Cr)	(Cu)	(Fe)	(Go)	(Ge)	(Mn)	(Mo)	(Ni)	(Pb)	(Ti)	(V)	(Zn)
EEL RIVER NEAR DOS RIOS (5a)	F61329.50	5-16-66	< 1.4	< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	3.7	< 5.7	< 0.29	< 1.4	1.0	< 1.4	< 0.57	16
		9-14-66	17	< 0.57	< 0.29	< 1.4	< 1.4	6.3	11	< 5.7	< 0.29	< 1.4	< 1.4	< 0.29	< 1.4	2.4	< 1.4	< 0.57	< 5.7
EEL RIVER, MIDDLE FORK AT DOS RIOS (5c)	F63010.00	5-16-66	14.9	< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	22	< 5.7	< 0.29	< 1.4	< 2.9	< 0.29	1.4	< 0.57	19
		9-14-66	15	< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	6.6	< 5.7	< 0.29	< 1.4	< 1.4	< 0.29	3.8	< 0.29	< 1.4	< 0.57	< 5.7
EEL RIVER AT SCOTIA (6)	F61100.00	4-13-66	280	< 1.3	< 0.67	< 3.3	< 3.3	< 3.3	> 100	< 13	< 0.67	< 3.3	< 0.67	< 0.67	< 0.67	< 0.67	6.7	< 0.57	15
		5-17-66	11	< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	6.6	< 5.7	< 0.29	23	< 0.29	1.1	1.1	< 1.4	0.9	< 0.57	10
KIAMATH RIVER BELOW IRON GATE DAM (1f)	F31600.00	5-02-66	131	< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	37	< 5.7	< 0.29	< 1.4	< 0.29	< 0.29	< 0.29	< 0.29	1.8	< 0.57	19
		9-12-66	34	< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	39	< 5.7	< 0.29	< 1.4	< 0.29	< 0.29	< 0.29	< 0.29	3.1	< 0.57	< 5.7
KIAMATH RIVER NEAR KIAMATH (3)	F31100.00	4-14-66	47	< 1.3	< 0.67	< 3.3	< 3.3	< 3.3	35	< 13	< 0.67	< 3.3	< 0.67	< 0.67	< 0.67	< 0.67	3.9	< 0.57	< 13
		5-18-66	27	< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	31	< 5.7	< 0.29	13	< 0.29	3.4	< 1.4	2.2	< 1.4	< 0.57	25
KIAMATH RIVER AT ORLEANS (2c)	F31220.01	5-19-66	25	< 0.57	< 0.29	< 1.4	< 1.4	2.3	21	< 5.7	< 0.29	10	< 0.29	< 0.29	< 0.29	< 0.29	5.1	< 0.57	34
		5-02-66	27	< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	8.3	< 5.7	< 0.29	< 1.4	< 0.29	< 0.29	< 0.29	< 0.29	3.1	< 0.57	9.7
KIAMATH RIVER NEAR SEJAD VALLEY (2b)	F31430.00	9-12-66	24	< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	33	< 5.7	< 0.29	< 1.4	< 0.29	< 0.29	1.8	< 1.4	< 0.57	< 5.7	
		5-18-66	10	< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	8.3	< 5.7	< 0.29	< 1.4	< 0.29	< 0.29	0.9	< 1.4	< 0.57	0.3	
MAD RIVER NEAR ARGADA (6a)	F51100.00	5-18-66	15	< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	5.1	< 5.7	< 0.29	12	< 5.7	< 5.7	1.5	< 1.4	< 0.57	< 5.7	
		9-12-66	29	< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	21	< 5.7	< 0.29	9.1	< 0.29	< 0.29	< 0.29	< 0.29	2.9	< 0.57	27
TRINITY RIVER NEAR HOOPA (4)	F41090.00	9-12-66	14	< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	5.1	< 5.7	< 0.29	< 1.4	< 0.29	< 0.29	1.3	< 1.4	< 0.57	< 5.7	

TABLE D-4 MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

An explanation of column headings follows:

Coliform - The two values represent analyses of duplicate samples collected at the same time. The determinations were made by the California Department of Public Health.

Turbidity - The values are shown in ppm when they represent parts per million of silica and in Jackson Candle Units when reported as "Units".

MBAS - Methylene Blue Active Substances (ABS and LAS) are a measure of the detergents.

TABLE D-4  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER  
North Coastal Area

Station	Station Number	Date	Caliform MPN/ml		Turbidity		MBAS <sup>1</sup> in mg/l	As in mg/l	PO <sub>4</sub> in mg/l	Other Constituents	
					ppm	units					
Bear River near Capetown (7b)	F75100.00	10-13-65			0	0					
		11- 9-65				0					
		12- 7-65				150					
		1-11-66				1300					
		2-15-66				270					
		3-15-66				1800					
		4-13-66				250					
		5-17-66				5	9	0.0	0.00	0.05	
		6-14-66					5				
		7-19-66					15				
		8-17-66					3				
9-14-66				1	0	0.0	0.00	0.01			
Black Butte River near Covelo (5h)	F63200.00	10-14-65			1	0				0.02	
		11-11-65			0	0				0.04	
		12- 8-65			25	70				0.02	
		1-13-66			375	600				0.14	
		2-17-66			75	110				0.09	
		3-16-66			325	500				0.14	
		4-12-66			240	420				0.09	
		5-16-66			5	9	0.0	0.00	0.00	0.00	
		6-13-66			1	3					
		7-20-66			1	2				0.14	
		8-17-66			1	9				0.08	
9-14-66			1	0	0.0	0.00	0.00	0.03			
Eel River above Outlet Creek near Dos Rios (5d)	F61329.50	10-14-65			1	0				0.02	
		11-11-65			4	10				0.05	
		12- 9-65			2	5				0.00	
		1-12-66			105	190				0.06	
		2-16-66			40	65				0.14	
		3-16-66			70	115				0.11	
		4-12-66			105	230				0.14	
		5-16-66			1	1	0.0	0.00	0.00	0.04	
		6-13-66			1	2					
		7-20-66			1	15				0.13	
		8-17-66			1	8				0.05	
9-14-66			1	1	0.0	0.00	0.00	0.02			
Eel River at Scotia (6)	F61100.00	10-12-65	6.2	13	1	0					
		11- 9-65	6.2	2.3	5	13					
		12- 7-65	23	23	15	60					
		1-11-66	2.3	230	315	650					
		2-15-66	1.3	6.2	75	110					
		3-15-66	62	62	275	450					
		4-13-66			375	650				0.30	
		5-17-66			5	25	0.0	0.00	0.00	0.11	Li 0.01; Sr 0.18
		6-14-66	23	62	1	6				0.10	Li 0.01; Sr 0.3
		7-19-66	0.23	0.62	1	10				0.06	Li 0.01; Sr 0.4
		8-16-66	230	620	3	9				0.27	Li 0.01; Sr 0.6
9-13-66	6.2	23	1	0	0.0	0.00	0.00	0.13			
Eel River at South Fork (5)	F61154.50	10-13-65			1	0					
		11-10-65			5	13					
		12- 8-65			50	150					
		1-12-66			360	550					
		2-16-66			50	85					
		3-15-66			240	450					
		4-13-66			240	550					
		5-17-66			30	30	0.0	0.00	0.00	0.01	
		6-13-66			1	4					
		7-19-66			1	15					
		8-17-66			1	5					
9-14-66			1	0	0.0	0.00	0.00	0.03			
Klamath River above Hamburg Reservoir Site (1c)	F31470.00	10- 5-65			3					0.53	
		11- 2-65			4					0.45	
		11-30-65			5					0.41	
		1- 4-66			65					0.48	
		2- 8-66			5					0.49	
		3- 9-66			50					0.38	
		4- 4-66			20					0.33	
		5- 2-66			5		0.0	0.01	0.00	0.34	
		6- 8-66			5					0.33	
		7-12-66			2					0.63	
		9-12-66			1		0.0	0.01	0.00	0.61	



TABLE D-4 (Continued)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER  
North Coastal Area

Station	Station Number	Date	Coliform MPN/ml		Turbidity		MBAS in mg/l	As in mg/l	PO <sub>4</sub> in mg/l	Other Constituents	
					ppm	units					
Klamath River at Orleans (2c)	F31220.01	10-11-65				5					
		11- 8-65				25					
		12- 6-65				5					
		1-10-66				75					
		2-14-66				15					
		3-25-66				40					
		4-15-66				50					
		5-19-66				10		0.0	0.00	0.10	
		6-15-66				5					
		7-18-66				5					
8-15-66				4							
Klamath River below Iron Gate Dam (1f)	F31600.00	10- 5-65	6.2			4			0.48		
		11- 2-65	50	50		4			0.45		
		11-30-65	23	23		5			0.39		
		1- 4-66	230	620		15			0.52		
		2- 8-66	6.2	62		5			0.57		
		3- 9-66	62	2400		5			0.61		
		4- 4-66	500	24000		15			0.36		
		5- 2-66	0.13	0.62		3		0.0	0.01	0.46	
		6- 8-66	21	62		5				0.57	
		7-12-66	62	130		5				0.67	
8- 8-66	0.62	2.3		1				0.75			
9-12-66		62		2	11	0.0	0.01	0.79			
Klamath River near Klamath (3)	F31100.00	10-12-65		23		5					
		11- 9-65	62	620		15					
		12- 7-65	6.2	23		25					
		1-11-66	23	23		210					
		2-15-66				50					
		3-14-66	23	62		180					
		4-14-66	23	230		105			0.33	Li 0.00; Sr 0.00	
		5-18-66				35		0.0	0.00	0.18	Li 0.0; Sr 0.1
		6-11-66	0.06	2.3		10				0.16	Li 0.01; Sr 0.1
		7-18-66	0.23	0.62		5				0.18	Li 0.01; Sr 0.1
8-16-66	23	23		4				0.36	Li 0.01; Sr 0.2		
9-13-66	0.23	2.3		2	0	0.0	0.00	0.25			
Klamath River near Seiad Valley (2b)	F31430.00	10- 5-65				5			0.44		
		11- 2-65				4			0.45		
		11-30-65				5			0.31		
		1- 4-66				15			0.34		
		2- 8-66				5			0.39		
		3- 9-66				20			0.36		
		4- 4-66				15			0.19		
		5- 2-66				2		0.0	0.00	0.16	
		6- 8-66				3				0.23	
		7-12-66				2				0.50	
9-12-66				2	5	0.0	0.01	0.66			
Mad River near Arcata (6a)	F51100.00	10-11-65				3					
		11- 8-65				1					
		12- 6-65				90	260				
		1-10-66				315	750				
		2-14-66				100	170				
		3-14-66				275	450				
		4-14-66	2400	2400		120	180				
		5-18-66				3	7				
		6-15-66	0.62	0.62		4	8	0.0	0.00	0.04	
		7-18-66	0.62	2.3		50	74				
8-15-66	0.2	0.2		60	90						
9-12-66	0.6	6.2		80	140	0.0	0.00	0.02			
Mattole River near Petrolia (7a)	F71100.00	10-13-65				1					
		11- 9-65				5					
		12- 7-65				10					
		1-11-66				210	450				
		2-15-66				60					
		3-15-66				360					
		4-13-66				75					
		5-17-66				1		0.0	0.00	0.09	
		6-14-66				1					
		7-19-66				1					
8-17-66				1							
9-14-66				1		0.0	0.00	0.06			



TABLE D-4 (Continued)

**MISCELLANEOUS CONSTITUENTS IN SURFACE WATER  
North Coastal Area**

Station	Station Number	Date	Coliform MPN/ml		Turbidity		MBAS in mg/l	As in mg/l	PO <sub>4</sub> in mg/l	Other Constituents
					ppm	units				
Middle Fork Eel River at Dos Rios (5c)	F63010.00	10-14-65			1	0			0.03	
		11-11-65			0	0			0.07	
		12- 8-65			50	160			0.01	
		1-13-66			210	450			0.10	
		2-17-66			65	100			0.09	
		3-16-66			350	550			0.14	
		4-12-66			375	650			0.12	
		5-16-66			35	65	0.0	0.00	0.06	
		6-13-66			1	0				
		7-20-66			1	10			0.04	
		8-17-66			1	10			0.06	
9-14-66			1	1	0.0	0.00	0.04			
Middle Fork Eel River at Eel River Ranger Station (5g)	F63120.00	10-14-65			0	0			0.03	
		11-11-65			0	0			0.05	
		12- 8-65			50	130			0.02	
		1-13-66			75	270			0.03	
		2-17-66			5	15			0.08	
		3-16-66			240	400			0.11	
		4-12-66			180	280			0.07	
		5-16-66			35	40	0.0	0.00	0.01	
		6-13-66			1	1				
		7-20-66			1	8			0.12	
		8-17-66			1	7			0.08	
9-14-66			1	0	0.0	0.00	0.03			
Mill Creek near Covelo (5e)	F63050.00	12- 8-65			4	10			0.03	
		1-13-66			15	60			0.11	
		2-17-66			5	5			0.12	
		3-16-66			105	170			0.17	
		4-12-66			40	65			0.14	
		5-16-66			1	0	0.0	0.00	0.05	
		6-13-66			1	2				
Outlet Creek near Longvale (5b)	F61350.00	10-14-65			1					
		11-11-65			1					
		12- 9-65			1					
		1-12-66			5					
		2-16-66			4					
		3-16-66			20					
		4-12-66			75	155				
		5-16-66			1	2	0.0	0.00	0.02	
		6-13-66			1	1				
		7-20-66			1	4			0.16	
8-17-66			1	6						
9-14-66			1	0	0.0	0.00	0.02			
Redwood Creek near Orick (3b)	F55100.00	10-12-65			2					
		11- 9-65			10					
		12- 7-65			70					
		1-11-66			375					
		2-15-66			20					
		3-14-66			325					
		4-14-66			150					
		5-18-66			5		0.0	0.00	0.00	
		6-14-66			275					
		7-19-66			1					
8-16-66			105							
9-13-66			1		0.0	0.00	0.03			
Salmon River at Somesbar (2a)	F34100.00	5-19-66			5		0.0	0.00	0.00	
Scott River near Fort Jones (1b)	F25250.00	10- 4-65			1					
		11- 1-65			0					
		11-29-65			2					
		1- 3-66			4					
		2- 7-66			2					
		3- 9-66			10					
		4- 4-66			25					
		5- 2-66			10		0.0	0.00	0.05	
		6- 8-66		6.2	23	3				
		7-12-66		6.2	9.2	1				
		8- 8-66		0.13	1.3	1				
9-12-66		1.3	6.2	1	1	0.0	0.00	0.02		

TABLE D-4 (Continued)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER  
North Coastal Area

Station	Station Number	Date	Coliform MPN/ml		Turbidity		MBAS in mg/l	As in mg/l	PO <sub>4</sub> in mg/l	Other Constituents
					ppm	units				
Shasta River near Yreka (1a)	F21050.00	10- 5-65			3					
		11- 2-65			2					
		11-30-65			4					
		1- 4-66			105					
		2- 8-66			3					
		3- 9-66			3					
		4- 4-66			2					
		5- 2-66	0.23	0.23	1		0.0	0.02	0.72	
		6- 8-66	6.2	50	1					
		7-12-66	6.2	6.2	1					
		8- 8-66	0.13	230	1					
9-12-66	13	62	2	10	0.0	0.01	0.52			
Smith River near Crescent City (3a)	F01300.00	10-12-65			1					
		11- 9-65			5					
		12- 6-65			15					
		1-11-66			75					
		2-15-66			35					
		3-14-66			120					
		4-14-66			60					
		5-18-66			5		0.0	0.00	0.01	
		6-14-66	0.23	13	1					
		7-19-66	23	23	1					
8-16-66	230	230	1							
9-13-66	6.2	23	1		0.0	0.00	0.08			
South Fork Eel River near Miranda (7)	F64100.00	10-13-65			1	0			0.05	
		11-10-65			60	65			0.09	
		12- 8-65			5	15			0.03	
		1-12-66			270	525			0.09	
		2-16-66			60	95			0.22	
		3-16-66			240	400			0.22	
		4-13-66			180	240			0.16	
		5-17-66			1	0	0.0	0.00	0.09	
		6-13-66	0	50	1	4				
		7-19-66	0.23	2.3	1	15			0.00	
		8-17-66	620	24000	1	6			0.08	
9-14-66		6.2	1	0	0.0	0.00	0.04			
Trinity River at Lewiston (4a)	F41640.00	10-11-65			5				0.02	
		11- 8-65			4				0.07	
		12- 6-65			5				0.02	
		1-10-66			2				0.02	
		2-14-66			2				0.08	
		3-25-66			1				0.16	
		4-15-66			1				0.04	
		5-19-66			1		0.0	0.00	0.00	
		6-15-66			1					
		7-18-66			1				0.08	
		8-15-66			1				0.10	
		9-12-66			1		0.0	0.00	0.07	
Trinity River near Burnt Ranch (4b)	F41376.00	10-11-65			2				0.10	
		11- 8-65			3				0.04	
		12- 6-65			5				0.01	
		1-10-66			5				0.02	
		2-14-66			4				0.04	
		3-25-66			2				0.12	
		4-15-66			5				0.03	
		5-19-66			4		0.0	0.00	0.00	
		6-15-66			1					
		7-18-66			2				0.04	
		8-15-66			1		0.0	0.00	0.02	
		9-12-66			1					
Trinity River near Hoopa (4)	F41090.00	10-11-65			2				0.05	
		11- 8-65			5				0.09	
		12- 6-65			35				0.02	
		1-10-66			210				0.08	
		2-14-66			75				0.18	
		3-25-66			90				0.12	
		4-15-66			90				0.07	
		5-19-66			15		0.0	0.00	0.05	
		6-15-66			5					
		7-18-66	620	620	4				0.14	
		8-15-66	0.2	6.2	1				0.10	
		9-12-66	0.2	6.2	1	0	0.0	0.00	0.05	

TABLE D-4 (Continued)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER  
North Coastal Area

Station	Station Number	Date	Coliform MPN/ml		Turbidity		MBAS in mg/l	As in mg/l	PO <sub>4</sub> in mg/l	Other Constituents		
					ppm	units						
Williams Creek near Covelo (5f)	F63105.00	10-14-65			1	0				0.02		
		11-11-65			0	0				0.05		
		12- 8-65			4	15				0.03		
		1-13-66			5	35				0.06		
		2-17-66			4	6				0.10		
		3-16-66				50	85			0.11		
		4-12-66				30	45			0.06		
		5-16-66				2	8	0.0	0.00	0.00		
		6-13-66				1	1					
		7-20-66				1	0				0.09	
		8-17-66				1	2				0.09	
		9-14-66				1	0	0.0	0.00		0.06	
		Van Duzen River near Bridgeville (5a)	F65300.00	10-13-65			4					
				11-10-65			5					
12- 7-65					80							
1-12-66					360	750						
2-16-66					75							
3-15-66					450							
4-13-66					180							
5-17-66					3		0.0	0.00		0.01		
6-14-66	6.2			130	1							
7-19-66	6.2			6.2	1							
8-16-66	62			230	1							
9-13-66	0.6	6.2	1		0.0	0.00		0.02				



APPENDIX E  
GROUND WATER QUALITY



## INTRODUCTION

This appendix presents ground water quality data collected during the period from October 1, 1965, through September 30, 1966. The data were collected from a number of major ground water sources in the North Coastal Area in cooperation with local agencies. During the 1966 water year, 80 wells were sampled in 11 ground water basins.

At the time of field sampling, pH and temperature measurements are normally made. Comments on local conditions are noted in field books which are available in the files of the Department of Water Resources.

Laboratory analyses of ground waters were performed in accordance with "Standard Methods for the Examination of Water and Waste Water", 12th Edition.

The Region and Basin and State Well Numbering Systems are described in Appendix C, "Ground Water Measurements".



TABLE E-1 MINERAL ANALYSES OF GROUND WATER

An explanation of column headings follows:

Lap - 5050 Department of Water Resources

EC - The specific conductance in micromhos at 25°  
centigrade.

TDS - Gravimetric determination of total dissolved  
solids in milligrams per liter.

SUM - Determined by addition of analyzed constituents.

## MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP FLD	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				TDS SUM	TM NCH
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SI02		
SMITH RIVER PLAIN 1-1-00																	
16N/01W-20M01 M 08/16/66	--	--	--	182	--	--	--	--	--	--	--	--	19	--	--	--	--
16N/01W-02G01 M 08/16/66 5050	--	7.0	194		12	9.7	14	0.5	0.0	101	1.66	1.5	8.7	0.9	--	0.1	113
					.60	.80	.61	.01		.85	.25	.03	.25	.01			97
					30	40	30			2	13	2	13	1			0
16N/01W-15C01 M 08/09/66 5050	--	6.7	143		5.4	8.1	9.4	0.6	0.0	41	.67	2.3	.42	11	--	0.0	90
					.27	.67	.41	.02		.51	.05	.05	.42	.18			72
					20	49	30	1		4	4	4	32	14			14
16N/01W-17K02 M 08/16/66 5050	--	6.7	416		9.4	22	29	0.9	0.0	50	.82	5.9	39	85	--	0.1	249
					.47	1.81	1.26	.02		24	.12	.12	1.10	1.37			216
					13	51	35	1				4	32	40			74
16N/01W-20A02 M 08/16/66	--	--	--	223	--	--	--	--	--	--	--	--	--	--	--	--	--
17N/01W-02G01 M 08/08/66	--	--	--	118	--	--	--	--	--	--	--	--	--	--	--	--	--
17N/01W-04J01 M 08/08/66	--	--	--	270	--	--	--	--	--	--	--	--	--	--	--	--	--
17N/01W-14C02 M * 08/09/66	--	--	--	186	--	--	--	--	--	--	--	--	--	--	--	--	--
18N/01W-05G01 M 08/09/66	--	--	--	171	--	--	--	--	--	--	--	--	--	--	--	--	--
18N/01W-17R01 M 08/09/66	--	--	--	215	--	--	--	--	--	--	--	--	--	--	--	--	--
18N/01W-36M02 M 08/10/66 5050	--	7.0	374		--	--	2.7	--	0.0	212	--	--	6.7	--	--	--	191
							.12			3.48			.19				17

\* Published in previous reports as 17N-1W-14C1

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER					
				CA	MG	NA	K	CO3	HCO3	504	CL	NO3	F	B	SI02	TDS SUM	TH NCH
KLAMATH RIVER BASIN																	
1-2.00																	
47N/02E-20C01 M 08/29/66 5050	--	7.1	453	21 1.05 27	20 1.64 43	25 1.09 29	1 .04	0.0	120 1.97 60	21 .44 13	17 .48 15	23 .37 11	--	0.1	--	246 187	133 35
BUTTE VALLEY																	
1-3.00																	
45N/01E-09C02 M 08/29/66 5050	--	--	178	--	--	--	--	--	--	--	--	--	--	--	--	--	--
45N/02W-01P01 M 08/29/66 5050	--	--	257	--	--	--	--	--	--	--	--	20 .32	--	--	--	--	--
46N/01W-02F01 M 08/29/66 5050	--	8.2	401	20 1.00 24	16 1.32 31	42 1.83 43	1 .06	0.0	226 3.71 90	7.2 .15 4	3.6 .10 2	8.9 .14 3	--	0.0	--	223 211	115 0
46N/01W-17801 M 08/29/66 5050	--	--	339	--	--	--	--	--	--	--	--	--	--	0.0	--	--	--
46N/02W-25R02 M 08/29/66 5050	--	--	300	--	--	--	--	--	--	--	--	--	--	0.0	--	--	--
47N/01E-06L01 M 04/27/66 5050	57 F	8.2 7.8	1140 1105	21 1.05 8	22 1.81 14	23 9.57 74	5	0.0	732 12.00 93	7.2 .15 1	23 .65 5	2.6 .04	--	1.5	--	714 679	142 0
47N/01E-07C01 M 04/27/66 5050	76 F	8.0 8.2	370 369	4.6 .23 6	4.5 .37 10	61 2.65 73	13 .38 10	0.0	188 3.08 85	1.8 .04 1	17 .48 13	0.8 .01	--	0.2	--	239 197	30 0
47N/01E-10C02 M 04/28/66 5050	76 F	8.4 8.0	280 282	6.5 .32 11	6.3 .52 18	41 1.78 60	13 .33 11	4.0 .13 5	147 2.41 84	4.0 .08 3	8.9 .25 9	0.3	--	0.1	--	185 156	42 0
47N/01E-32A01 M 05/25/66 5050	69 F	8.1 8.0	200 198	7.1 .35 17	3.5 .29 14	29 1.26 60	7.8 .20 10	0.0	115 1.89 91	1.5 .03 1	5.1 .14 7	1.2 .02 1	--	0.0	--	132 112	32 0
47N/01E-32001 M 04/27/66 5050	56 F	8.1 7.2	459 448	24 1.20 25	15 1.23 26	49 2.13 45	8.6 .22 5	0.0	261 4.28 89	9.4 .20 4	11 .31 6	2.2 .04 1	--	0.1	--	287 247	121 0

## MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLER	TEMP F	PH LAB FLO	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS SUM					
			FC LAB FLO	CA	MG	NA	K	CO <sub>3</sub>	HCO <sub>3</sub>	SO <sub>4</sub>	CL	NO <sub>3</sub>	F	B	SI0 <sub>2</sub>	TDS SUM
BUTTE VALLEY 1-3.00																
47N/01W-13L01 M 04/27/66 5050	52 F 8.1 8.4		198 205	5.4 .27 12	2.8 .23 11	33 1.44 66	8.8 .23 11	0.0 1.90 92	116 0.0	4.6 .13 6	1.9 .03 1	--	0.1	--	122 113	25 0
47N/01W-23H02 M 08/29/66 5050	--	--	248	--	--	--	--	--	--	--	--	--	--	--	--	--
47N/01W-35Q01 M 04/27/66 5050	54 F 8.0 8.0		414 404	20 1.00 22	18 1.48 33	41 1.78 40	7.4 .19 4	0.0 4.02 93	245 0.0	3.6 .07 2	5.4 .09 2	--	0.1	--	218 220	123 0
47N/02W-16L01 M 05/25/66 5050	53 F 8.0 7.8		437 396	15 .75 17	7.4 .61 14	62 2.70 62	12 .31 7	0.0 4.26 99	0.0 0.0	0.0 0.0	0.0 0.0	--	0.3	--	268 225	68 0
48N/01E-30N01 M 05/25/66 5050	--	8.5	362	16 .80 21	22 1.81 49	21 .91 24	8.2 .21 6	7.0 .23 6	163 2.67 73	21 .44 12	4.4 .07 2	--	0.0	--	210 188	130 0
48N/01E-30P01 M 05/25/66 5050	--	8.6	396	21 1.05 24	17 1.40 33	37 1.61 37	9.4 .24 6	8.0 .27 6	218 3.58 86	8.2 .17 4	1.3 .02 3	--	0.1	--	240 214	122 0
48N/01E-31401 M 05/25/66 5050	49 F 8.6 7.8		485 458	14 .70 14	8.5 .70 14	84 3.65 71	3.1 .08 2	11 .37 7	247 4.05 78	27 .56 11	1.1 .02	--	0.2	--	262 276	70 0
48N/01E-31K01 M 04/28/66 5050	57 F 8.4 8.2		734 716	10 .50 6	23 1.89 24	112 4.87 62	22 .56 7	6.0 .20 3	409 6.71 85	25 .52 7	1.5 .02	--	0.3	--	468 416	118 0
48N/01W-24P01 M 05/25/66 5050	73 F 8.5 8.0		242 251	12 .60 21	7.3 .60 21	33 1.44 51	6.8 .17 6	5.9 .20 7	145 2.38 85	7.9 .16 6	0.0 0.0	--	0.0	--	166 147	60 0
48N/01W-25Q01 M 05/25/66 5050	55 F 8.4 7.8		368 340	28 1.40 36	19 1.56 41	17 .74 19	5.9 .15 4	5.0 .17 4	188 3.08 80	23 .48 12	0.5 .01	--	0.0	--	210 195	150 0
48N/01W-28C01 M 04/28/66 5050	54 F 7.9 7.2		338 325	27 1.35 36	21 1.73 46	11 .48 13	6.5 .17 5	0.0 3.49 96	213 0.06 2	3.1 .06 2	2.1 .03 1	--	0.0	--	190 177	155 0
48N/01W-28F01 M 04/28/66 5050	53 F 8.2 7.4		589 564	42 2.10 32	30 2.47 38	41 1.78 27	7.8 .20 3	0.0 5.95 92	363 0.21 3	10 .21 3	9.4 .15 2	--	0.1	--	348 323	227 0

TABLE E-1 (Continued)  
**MINERAL ANALYSES OF GROUND WATER**

STATE WELL NUMBER DATE TIME	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN							MILLIGRAMS PER LITER PERCENT REACTANCE VALUE							MILLIGRAMS PER LITER		
				CA	MG	NA	K	CO <sub>3</sub>	HCO <sub>3</sub>	SO <sub>4</sub>	CL	NO <sub>3</sub>	F	B	SI0 <sub>2</sub>	TDS	TH	NCH		
BUTTE VALLEY																				
1-3.00																				
48N/01W-28J01 M 05/24/66 5050	61 F	8.3 7.4	402 3A2	33 3A	17 33	24 24	8.0 .20	0.0	236 3.87	12 .25	6 6	4.5 .13	1.1 .02	--	0.0	--	216 215	151 0		
48N/01W-34801 M 04/28/66 5050	68 F	8.3 8.0	458 437	20 21	14 24	51 46	16 9	0.0	274 4.49	4.3 .09	2 2	7.2 .20	0.8 .01	--	0.2	--	250 248	110 0		
48N/01W-36J01 M 05/25/66 5050	55 F	8.4 7.4	1330 1253	43 14	73 38	154 43	30 5	12	858 14.07	23 .48	3 3	23 .65	4.8 .08	--	0.1	--	787 783	408 0		
SHASTA VALLEY																				
1-4.00																				
42N/05W-20J01 M 08/15/66	--	--	3A0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
42N/06W-10J01 M 08/15/66	--	--	568	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
43N/05W-02C01 M 08/16/66 5050	56 F	7.7	500	33 1.65	24 1.97	36 1.57	3.6 .09	0.0	272 4.46	8.2 .17	17 3	6.8 .11	6.8 .11	--	0.4	--	292 262	183 0		
44N/05W-32F01 M 08/16/66 5050	61 F	7.9	1260	--	--	120 5.22	--	0.0	548 8.99	--	150 4.23	--	--	--	--	--	--	420 0		
44N/05W-34H01 M 08/16/66	--	--	6A0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
44N/06W-22K01 M 08/16/66 5050	65 F	7.0	505	--	--	25 1.09	--	0.0	256 4.20	--	17 .48	--	--	--	--	--	--	203 0		
45N/05W-06E01 M 08/16/66	--	--	972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SCOTT RIVER VALLEY																				
1-5.00																				

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLER	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN							MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE							MILLIGRAMS PER LITER		
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SI02	TDS	SUM	TH	NCH	
SCOTT RIVER VALLEY																				
1-5.00																				
43N/09W-02G01 M 08/17/66	--	--	517	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
43N/09W-08F01 M 08/17/66	--	--	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
43N/09W-24F01 M 08/17/66 5050	56 F	7.6	503	--	4.8 .21	--	0.0	323 5.30	1	--	1.0 .03	--	--	--	--	--	270 5			
43N/09W-24F02 M 08/17/66 5050	56 F	8.0	448	45 2.25 47	30 2.47 51	2.0 .09 2	0.0	273 4.48 93	4 1	1.8 .05 2	12 .19 4	--	0.1	--	223 230	237 13				
43N/09W-28D02 M 08/17/66 5050	85 F	6.6	74	7.7 .38 54	2.4 .20 29	2.4 .10 14	0.0	39 .64 88	3	1.0 .02 3	3.5 .06 8	--	0.1	--	49 38	29 0				
HAYFORK VALLEY																				
1-6.00																				
31N/12W-12L01 M 08/02/66	--	--	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
31N/12W-15K01 M 08/02/66 5050	62 F	--	275	24 1.20	--	8.7 .38	--	--	--	5.9 .17	--	--	--	--	--	--	--			
32N/11W-35G01 M 08/02/66 5050	61 F	--	395	49 2.45	--	13 .57	--	--	--	26 .73	--	--	--	--	--	--	--			
MAD RIVER VALLEY																				
1-8.00																				
05N/01E-04H03 H * 07/22/66	--	--	400	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
05N/01E-08J01 H 07/22/66	--	--	364	--	--	--	--	--	--	--	--	--	--	--	--	--	--			

\* Published in previous reports as 5N-1E-4H2

TABLE E-1 (Continued)  
**MINERAL ANALYSES OF GROUND WATER**

STATE WELL NUMBER DATE TIME LAB SAMPLER	TEMP	PH LAB FLD	MINERAL CONSTITUENTS IN								MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER			
			EC LAB FLD	CA	MG	NA	K	CD3	HCO3	SO4	CL	NO3	F	B	SI02	TDS SUM	TH NCH	
MAD RIVER VALLEY																		
1-8.00																		
06N/01E-07M01 H 07/22/66 5050	--	6.7	617	52	38	15	--	0.0	304	--	31	--	--	--	--	287		
				2.59	3.14	.65		4.99		.87						38		
06N/01E-08M01 H 07/22/66 5050	--	--	206	--	--	--	--	--	--	--	--	0.0	--	--	--	--		
			213											0.0				
06N/01E-17D01 H 07/22/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
			430															
06N/01E-19D01 H 07/22/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
			386															
06N/01E-30N01 H 07/22/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
			375															
06N/01E-32F01 H 11/03/66	--	7.6	742	6.9	15	123	7.5	0.0	279	3.3	88	1.7	--	--	424	79		
				.34	1.23	5.35	.19	4.58	4.58	.07	2.48	.03			383	0		
				5	17	75	3	64	64	1	35							
06N/01W-01H01 H 07/22/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
			164															
07N/01E-30B01 H 07/22/66 5050	--	7.2	117	--	--	12	--	0.0	26	--	13	--	--	--	--	25		
			131			.52		.43	.43		.37					4		
EUREKA PLAIN																		
1-9.00																		
05N/01E-18D01 H 07/22/66 5050	--	8.1	856	--	--	148	--	0.0	339	--	110	--	--	--	--	102		
						6.44		5.56	5.56		3.10					0		
05N/01E-20Q01 H 07/22/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
			291															



TABLE E-1 (Continued)

## MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLER	TEMP	PH LAB FLO	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				TH NCH	
				CA	MG	NA	K	CO <sub>3</sub>	HCO <sub>3</sub>	SO <sub>4</sub>	CL	NO <sub>3</sub>	F	B	SI0 <sub>2</sub>		TDS SUM
EEL RIVER VALLEY																	
1-10.00																	
02N/01W-04001 H 07/21/66 5050	--	8.3	501	--	--	9.0 .39	--	0.0	262 4.30	--	8.8 .25	--	--	--	--	--	246 31
02N/01W-07F01 H 07/26/66	--	--	449	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03N/01W-30N01 H 07/26/66	--	--	558	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03N/02W-02A02 H 07/26/66 5050	--	8.0	1890	70	71	158	2.8	0.0	66	16	539	3.6	--	0.0	--	977	468
				3.49	5.84	6.87	.07		1.08	.33	15.20	.06				893	414
				21	36	42			6	2	91						
03N/02W-27G01 H 07/26/66 5050	--	7.8	4090	150	157	348	78	0.0	432	75	1020	1.5	--	0.1	--	2650	1020
				7.49	12.91	15.14	2.00		7.08	1.56	28.76	.02				2041	667
				20	34	40	5		19	4	77						
03N/02W-35M01 H 07/26/66 5050	--	7.8	994	38	46	85	13	0.0	273	31	159	4.6	--	0.1	--	524	286
				1.90	3.78	3.70	.33		4.48	.64	4.48	.07				510	62
				20	39	38	3		46	7	46	1					
ROUND VALLEY																	
1-11.00																	
22N/12W-06L02 M 09/16/66	--	7.4	453	49	21	17	0.8	0.0	284	0.0	1.8	2.7	--	0.2	--	242	207
				2.45	1.73	.74	.02		4.66	.05	.05	.04				232	0
				50	35	15			98	1	1	1					
22N/12W-19F01 M 09/16/66	--	--	514	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22N/13W-01J03 M 09/16/66	--	8.2	223	23	8.4	9.3	0.9	0.0	117	9.7	1.8	0.5	--	0.1	--	130	92
				1.15	.69	.40	.02		1.92	.20	.05	.01				111	0
				51	31	18	1		88	9	2						
22N/13W-12K01 M 09/16/66	--	8.3	263	19	15	14	0.6	0.0	136	12	6.4	2.2	--	0.1	--	162	109
				.95	1.23	.61	.02		2.23	.25	.18	.04				136	0
				34	44	22	1		.83	9	7	1					
22N/13W-13A01 M 09/16/66	--	8.3	282	--	--	--	--	--	--	11	6.2	--	--	--	--	--	124
										.23	.17						124

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE TIME SAMPLER	TEMP	PH LAB FLO	EC LAB FLO	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS SUM					
				CA	MG	NA	K	CO <sub>3</sub>	MCO <sub>3</sub>	SO <sub>4</sub>	CL	NO <sub>3</sub>	F	B	SIO <sub>2</sub>	TH NCH	
ROUND VALLEY																	
1-11.00																	
23N/12W-31N01 M 09/16/66	--	--	--	242	--	--	--	--	--	--	--	--	--	--	--		
23N/12W-33L01 M 09/16/66	--	8.7	588	3.14 45	2.63 38	1.22 17	0.6 0.02	28 0.93	355 5.82	0.0	3.7 0.10	4.4 0.07	--	0.1	--	347 334	289 0
23N/13W-25P01 M 09/16/66	--	--	--	239	--	--	--	--	--	--	--	--	--	--	--	--	--
23N/13W-36P02 M 09/16/66	--	8.0	250	1.10 40	1.32 48	0.29 11	0.6 0.02	0.0 1	137 2.25	3.8 0.08	2.4 0.07	11 0.18	--	0.0	--	140 130	120 8
LITTLE LAKE VALLEY																	
1-13.00																	
18N/13W-08L01 M 09/19/66	--	8.3	271	0.70 26	1.23 45	0.78 28	1.0 0.03	0.0 1	123 2.02	11 0.23	9.0 0.25	5.2 0.08	--	0.2	--	156 134	96 0
18N/13W-16M01 M 09/19/66	--	8.3	289	0.95 33	0.82 28	1.13 39	0.8 0.02	0.0 1	128 2.10	0.5 0.01	26 0.73	1.7 0.03	--	4.0	--	180 151	90 0
18N/13W-20M03 M 09/19/66	--	8.3	196	1.00 46	0.80 37	0.34 16	0.6 0.02	0.0 1	112 1.84	2.6 0.05	4.2 0.12	1.2 0.02	--	0.1	--	119 101	90 0



TABLE E-2 (Continued)  
TRACE ELEMENT ANALYSES OF GROUND WATER  
NORTH COASTAL AREA

State Well Number (MDB & M)	Date	Constituents in parts per million						
		Al	As	Cu	Fe (Total)	Pb	Mn	Zn

BUTTE VALLEY (cont.)

48N/1E-26J1	2-15-66		0.01					
48N/1E-30N1	2-15-66		0.07					
48N/1E-30N1	5-25-66		0.07					
48N/1E-30P1	5-25-66		0.01					
48N/1E-31A1	5-25-66	0.00	0.02	0.02	0.02	0.00	0.02	0.00
48N/1E-31K1	4-28-66		0.01					
48N/1W-24P1	5-25-66	0.00	0.02	0.01	0.03	0.00	0.02	0.00
48N/1W-25Q1	5-25-66	0.00	0.06	0.01	0.17	0.00	0.01	0.02
48N/1W-28C1	4-28-66		0.00					
48N/1W-28F1	4-28-66		0.01					
48N/1W-28J1	5-24-66	0.00	0.01	0.00	0.04	0.00	0.01	0.00
48N/1W-34B1	4-28-66		0.00					
48N/1W-36J1	5-25-66	0.00	0.02	0.03	0.04	0.00	0.08	0.00

HAYFORK VALLEY (1-6)

32N/11W-25G1	8- 2-66		0.00					
--------------	---------	--	------	--	--	--	--	--

ROUND VALLEY (1-11)

22N/12W- 6L2	9-16-66				2.1			
22N/13W-12K1	9-16-66				0.83			
22N/13W-13A1	9-16-66				0.02			

TABLE E-2 (Continued)  
TRACE ELEMENT ANALYSES OF GROUND WATER  
NORTH COASTAL AREA

State Well Number	Date	Constituents in parts per million						
		Al	As	Cu	Fe (Total)	Pb	Mn	Zn

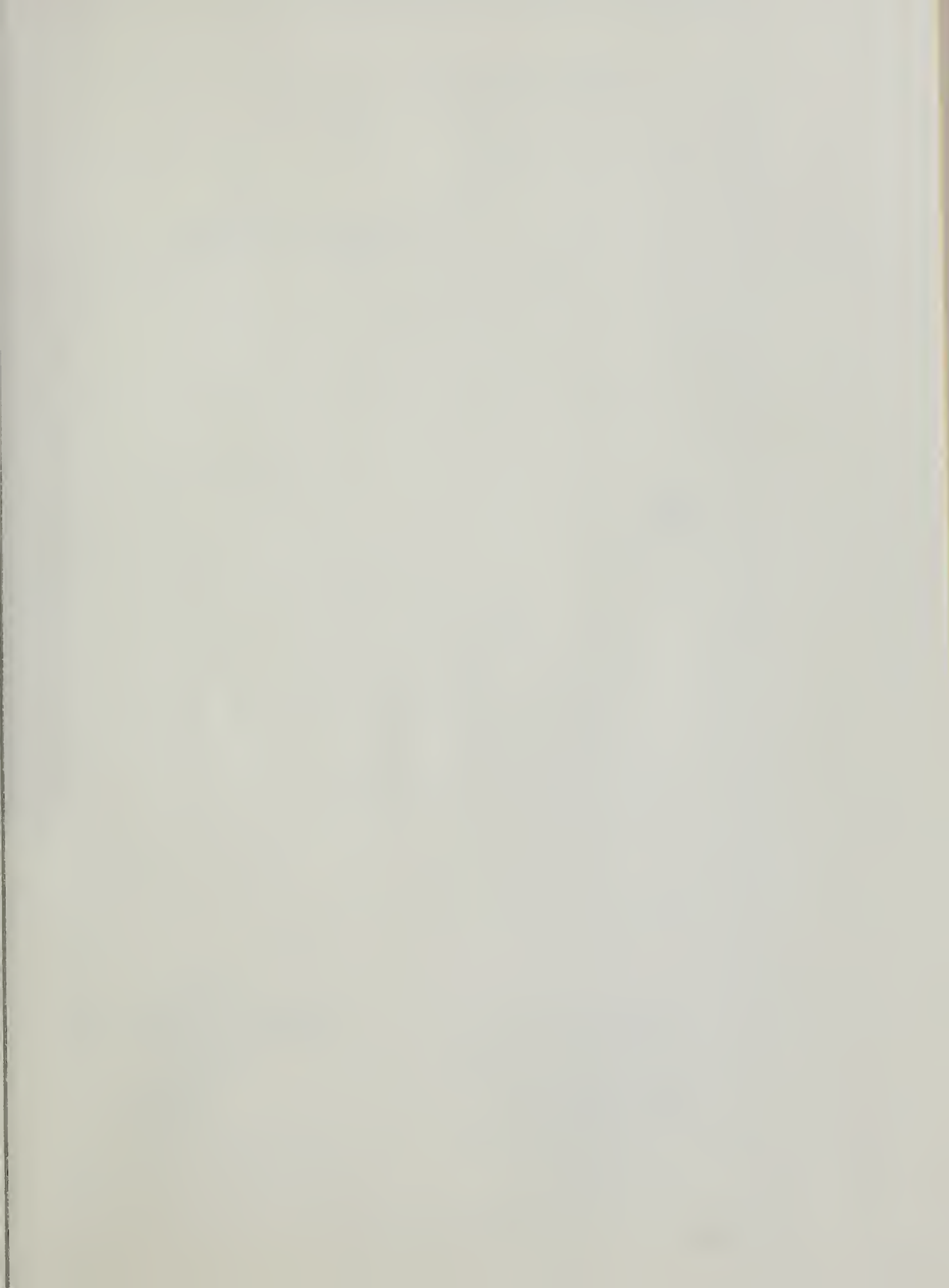
ROUND VALLEY (cont.)

23N/12W-33L1	9-16-66				1.0			
23N/13W-36P2	9-16-66				0.00			

LITTLE LAKE VALLEY (1-13)

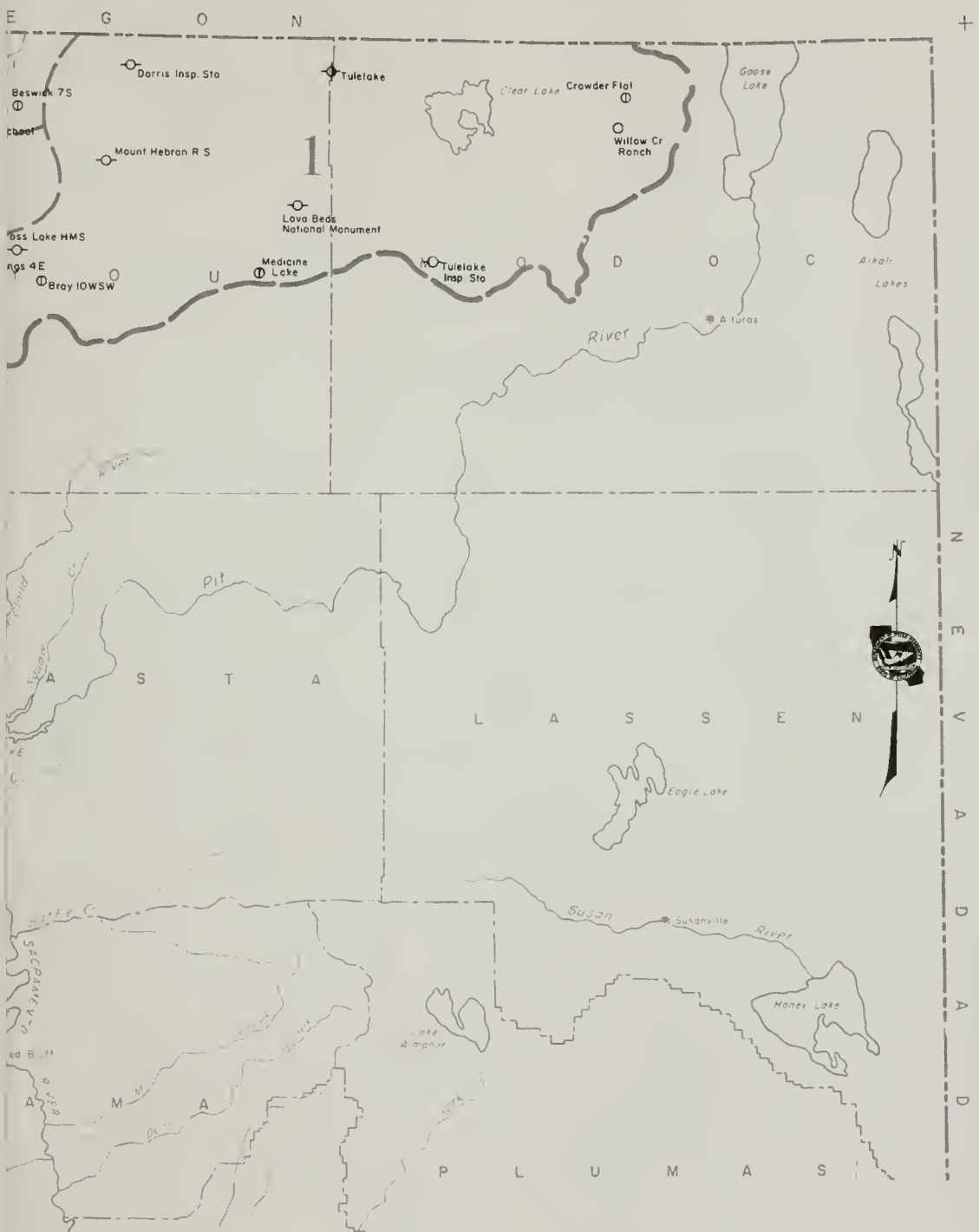
18N/13W- 8L1	9-19-66				0.20			
18N/13W-16M1	9-19-66				0.10			
18N/13W-20H3	9-19-66				4.7			









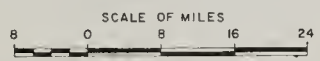


**LEGEND**

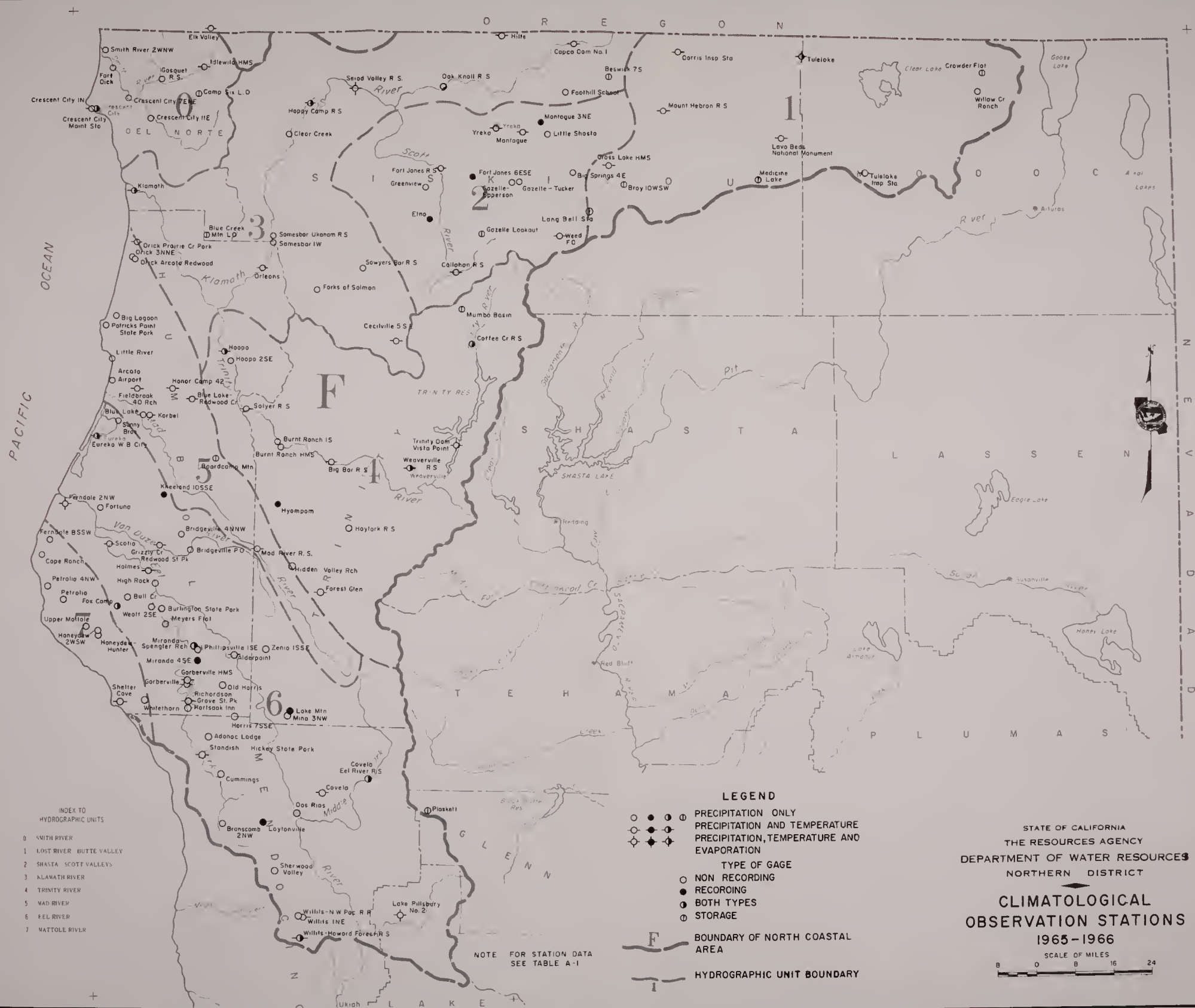
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 NORTHERN DISTRICT

**CLIMATOLOGICAL  
 OBSERVATION STATIONS  
 1965-1966**







- INDEX TO HYDROGRAPHIC UNITS
- 0 SMITH RIVER
  - 1 LOST RIVER BUTTE VALLEY
  - 2 SHASTA SCOTT VALLEYS
  - 3 KLAMATH RIVER
  - 4 TRINITY RIVER
  - 5 MAD RIVER
  - 6 EEL RIVER
  - 7 MATTOLE RIVER

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- ● ○ ⊕ PRECIPITATION, TEMPERATURE AND EVAPORATION
- TYPE OF GAGE
- NON RECORDING
- RECORDING
- BOTH TYPES
- STORAGE
- F BOUNDARY OF NORTH COASTAL AREA
- I HYDROGRAPHIC UNIT BOUNDARY

NOTE FOR STATION DATA SEE TABLE A-1

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**CLIMATOLOGICAL OBSERVATION STATIONS**  
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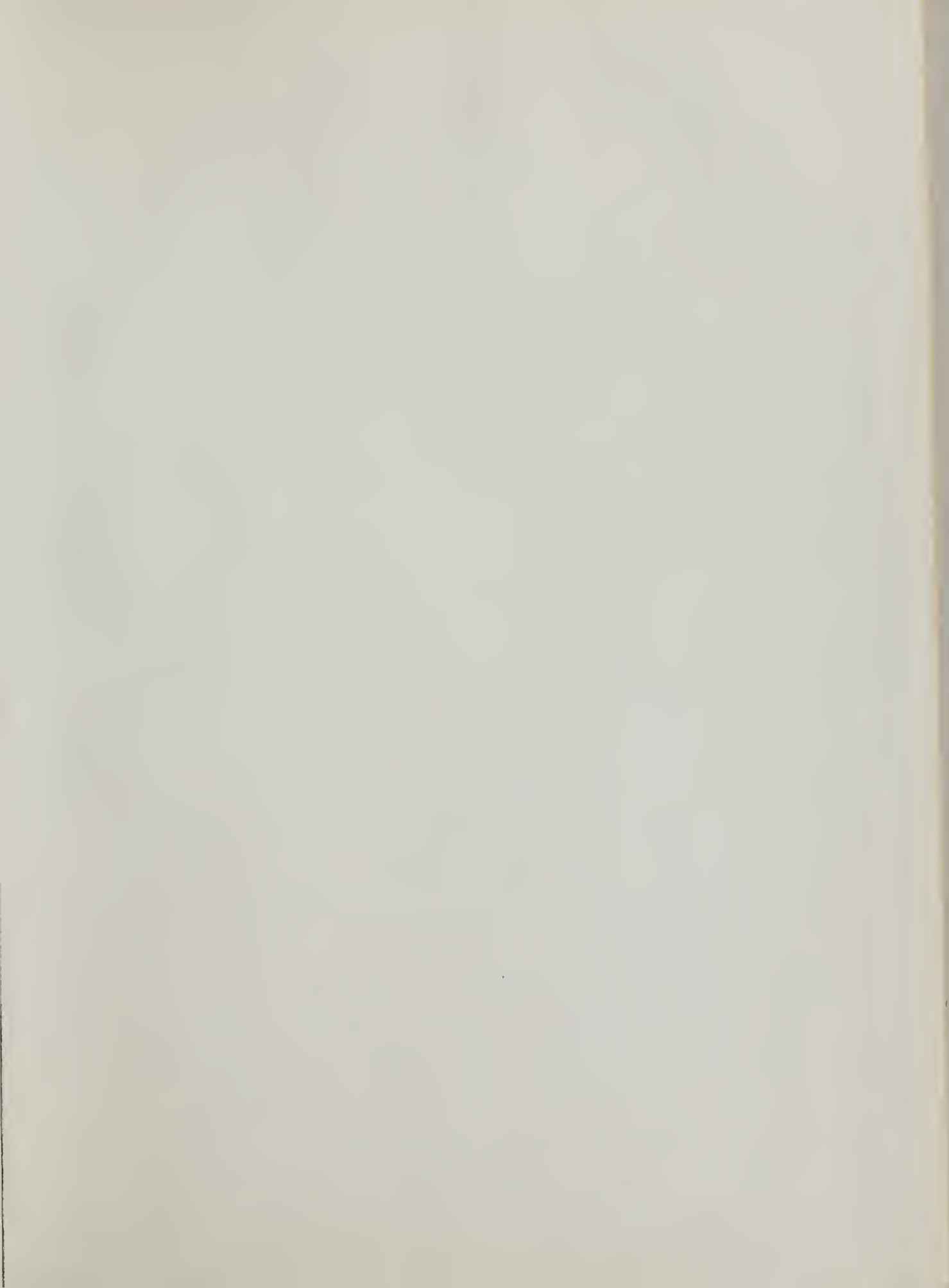
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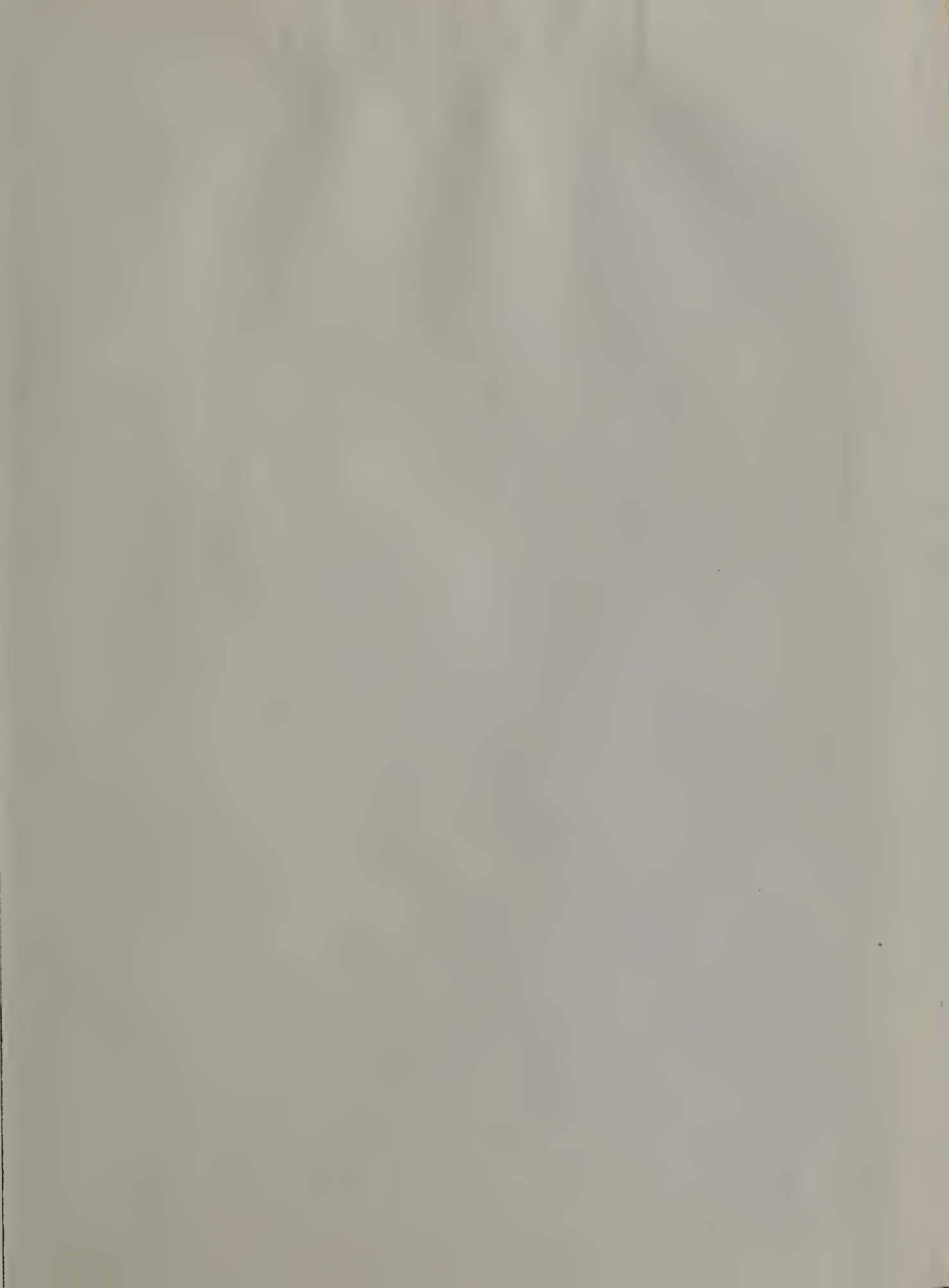












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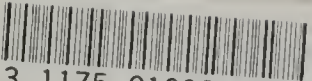
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